

SEQUENCE LISTING

<110> Mendrick, Donna
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<120> Molecular Toxicology Modeling

<130> 44921-5038-US

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<150> US 60/222,040

<151> 2000-07-31

<150> US 60/222,880

<151> 2000-11-02

<150> US 60/290,029

<151> 2001-05-11

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<151> 2001-06-19

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<151> 2001-07-09

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<213> Rattus norvegicus

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<211> 290

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<213> Rattus norvegicus

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<221> unsure

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 <213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<400> 9

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gatcacttga gaggtgggtc cagagctggg gaaagaagag ccgcaggcag agtcagaagc 180
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<211> 731

<212> DNA

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<220>

<221> unsure

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atcaacaccc atttttggaa ttttattaag aacctgtact aaatgaagtt tttaatcaga 180
aaacattccc ttttacctta aaagtgtctt ttaaatgaag gcaccaacaa gaactacttt 240
cagatggtag agaatttctt atttcttgaa gactctgtgg ttgaccactt ctctattagt 300
tacctgcagc aagacacctt ccattttact accaacacca ctgaaggaag caagaaaagc 360
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<212> DNA
<213> Rattus norvegicus

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<221> unsure
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<212> DNA
<213> Rattus norvegicus

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cccagtccca ctttaggtgc aactgacag ctattaaagt tagtgcgccc aaaggaccgc 180
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caccagcaaa tattcccctg agagacatcc atttaggagc attgccttca gaggccttaa 360
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<212> DNA
<213> Rattus norvegicus

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<212> DNA

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<400> 18

<210> 19

<212> DNA

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<211> 588

<212> DNA

<213> Rattus norvegicus

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 ttcattgttt gcttgccgac tccttgcttc caagctcttt ctggtgctct gcccgggagg 480
 gggagtgggt ggtgccaagt tttcaccccc tcgccgggat gaggtgtcag tgatctacca 540
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<212> DNA

<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus
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<212> DNA
<213> Rattus norvegicus
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<213> Rattus norvegicus

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ccaatgtcat gg 612

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<211> 599
<212> DNA
<213> Rattus norvegicus

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<213> Rattus norvegicus

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<210> 34

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800576

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<210> 35

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800739

<400> 35

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aaacatgttg gccaatgtag gcaggttctc attgttgga tgcattttag ttaggaaat 540
aaactggcga cggaggcgac tcaattctgc caaggtcaag ggacgggtaa atcggaggtg 600
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<210> 36

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800797

<400> 36

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gctctcctt aatacgatct gtggaaatga gccgggtggc ttcggaaga acgtgccag 300
taacgaaggc tccaggaagg ctccggtctc aggagctctg ccatgctgac cctcgtgcc 359

<210> 37

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800962

<400> 37

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<210> 38
 <211> 560
 <212> DNA
 <213> Rattus norvegicus

<220>
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 gtgatttgta gatttgaggac gttcagaaac attgggaact aaatttagaa tgggccaag 240
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 cctccaaagt gtgcgatga tggccttgca cttgggaatc aggttctgct cacttgga 360
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<210> 39
 <211> 437
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA801255

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 tagtggaataa tgttcttttg tctcaaactt ggatattgct acctgaagta ataaacaccc 180
 caagccagaa acttggtcag tgctggcaac attttttgag tgtttgtgat ccaggaatcc 240
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 aattaccaga taaccagatt ctttatcaga attatggaat aaaatatgta ctgtaacaaa 360
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 aagattacat tgaagaa 437

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 <212> DNA
 <213> Rattus norvegicus

<220>
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 aggcactcca ggtggactcg agggccatcg ctggctccac ctctaaggct aaactggacg 300
 tcagacgtcg gggcctgggt gccagaggga cccagaaaac tgagggtccc gtctcagctg 360
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<210> 41

<211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
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 taatggaagg aagaagtaga caggtaagtc actgccaaat aacacaagtt cataatgatc 240
 ggttactcaa gtaacctggc aaatgcctgc tcagaattta catttacttt cctcattgac 300
 tttcttgctt ttgtgtttca gtgaatttgg actaggtcca aaaactagac cttcaaaaact 360
 ccattctctc cattcagtgc tgaagatggg catgaagggt gagtatactt gagaacatgc 420
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<210> 45
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

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 ttacaacaga gattctccag cttccagccc agctctgtcc cctgacctgc tgtgggttcc 180
 ttgcacactc acgcctttca taaagaagga ggtacacaca gtagaacggg aggggtcggg 240
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 gttccccagc tgaggtgcga aagccataga taggattgta aacatgcggt tggaaacaggt 480
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<210> 46
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817829

<400> 46
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 agtgatttca ttctcactga ggagcggcac cctgaagaat cgagtccatt agtaacactc 240
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 catcttcctc acagtgagaa gaaatacaat ataaccttaa taagaaaacg acctcattac 360
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<210> 47
 <211> 612
 <212> DNA
 <213> Rattus norvegicus

<220>
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<220>
 <221> unsure
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<210> 48
 <211> 622
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817849

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 tctacttaaa gatagcacag gagcagatcc gctctgcttg tcttgctggt ttatagggtg 180
 caactcatcc tcttggttc tggctgctgg gtacagggct gagagtgggg ttaggtttgg 240
 aaaaaacatg gctgtgggta gcacgagttg gcttttgttg tgtttctttg cataggtgtt 300
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 ttgcctgcc a ctggcctggg gcatcttgct tatctttgag gaagtcctag gaaatagttt 420
 ctgtaatgca tcttgatttg aaatcagtga aagtgttttg gcagtgggaa aataacaatc 480
 ccacttcaga gatctcaca acggaaaatt tgccctcgcaa aaactccttt aaacgctaac 540
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<210> 49
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817921

<400> 49
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ttcccgcat ctccggcctc tccgtttagc cttctcacct ccaatgtcct cgaacctagc 480
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<210> 50

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA817925

<400> 50

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ggcacggcag tctcagaac gggcactgag acagcacctc atgcgtgtca ggtctttaat 180
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acaattcaat tggcagaaaa atggctatcg ctgggtggaca ttagggttgc agtgaaaaaa 300
aaatccccct cccccaattc ttgcttgcca ccgtgggaga cgaggtgagg gttcctagag 360
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<210> 51

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818039

<400> 51

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gatgccttgg tgcaggcca gacacaacct tagggatgtt tcttacctgt acatacatat 240
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<210> 52

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818089

<400> 52

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tggacacgat gagttattta ttagcacagg ttgtcacaag tcgccagctg ttctcattct 180
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 ttcactgtat caaagtcaat ggtgatgcca aacgccacgc caatctcatc agttcttgca 420
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<210> 53

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818105

<400> 53

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<210> 54

<211> 535

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818107

<400> 54

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 gctgagacaa gagagtgcga agttcaaggc cagcttggac acgtgtcgag actctctctc 480
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<210> 55

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818123

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aaaaagcact	tttattctgt	ccttttcccc	tttaattttt	cttttttaaa	ccagcaaaag	300
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aagggaagccc	tcagagatgt	gtcagtggtg	ctgagggtcca	ccgaggccca	caccaacagg	420
tgtggcattc	catgctatca	cttctacaaa	gaaccatgaa	gaatgcttgt	agaccctatg	480
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<210> 56
<211> 518
<212> DNA
<213> Rattus norvegicus
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<400> 56						
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taacaaccat	ttaaâcatct	tttaggcact	tggtggaâaa	gacactggag	aatgaccacc	180
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âgâtagcca	aâggctcâcâ	gâgâââcccg	gtgtcââââc	ccââââââat	ttggâgââat	480
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<220>
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<211> 357
<212> DNA
<213> Rattus norvegicus
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attttctgta	tgtaatgttc	tatactact	tactttttctc	cataagagaa	gccatacata	300
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<210> 59
 <211> 572
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818211

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 <211> 464
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 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818258

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 ctacactata gaaattcccc taaaaggctt aaaatacctt gata 464

<210> 61
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818264

<400> 61
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<210> 62
<211> 429
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. AA818271

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<210> 63
<211> 548
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. AA818288

<210> 65
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818355

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 agaaaggagg gattgggaca tcatgcatgt taaatgtttt aaggaagtgt gcatctactg 360
 ggctggggag acggcttagt cagcacaagt aggtataagg gcctgaattt ggcacagtca 420
 aaaacgggtg gttcgatgga ctgtgggttat aaccccagag ctggctcact agctatcaag 480
 cctagtctaa gctcctgcaa gccccaggcc agtcaaagat cctgtttcag tggaaagatg 540
 gatgacgct t 551

<210> 66
 <211> 340
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818412

<400> 66
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 gggcaatgcc ttgcgaaga caaatgctgt ttcctgtgga gaagggcatg aaagcttcac 180
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<210> 67
 <211> 564
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818421

<400> 67
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 ttaagactgg ttgagaaata gaacaaaaac atagtaaaat gtttaaaaaa ttaaagaaca 180
 ttttccaagt ataaatttta taaatacaaa acaaattcac aaatgacttt gaatgctaaa 240
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 ggactcactc atgtgtagtg ttgaaaccct atgacatgga gctcagacac actctctatg 360
 gtgtgttcta gcaggctcac cgtggagaca agacctcctt actactggaa ctcctaaggc 420
 tcaatgacaa aatagagcat agatgaaaaa tattttccaa gacacctgaa cacatgaatg 480
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<210> 68
 <211> 519

<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818474

<400> 68

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caagcaacca aaacctgaaga acctaaagac gagcaagata aagacaatta gagtctactc 420
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tttcaagatg tcaagaatg aagtcaaaaa ataaaattc 519
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<210> 69

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818490

<400> 69

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ggtaaggggt gtcgtgggtg tccctgagaa gctcagtcga gagggccttt gtctaagaga 180
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accacgggtg ggaaagaggg tggcggggaag agcttgatac actatcttaa gaaacaccgt 360
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<210> 70

<211> 507

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818521

<400> 70

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<210> 71

<211> 557

<212> DNA

<213> Rattus norvegicus

<210> 74
 <211> 470
 <212> DNA
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<220>
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<400> 74
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 ttgtttttta agggaaagaa aaaggtaagt ttgaaaccga attgtgcaga accgatcaca 360
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<210> 75
 <211> 530
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 76
 <211> 584
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818700

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 ctgtagttag ctcagcagcc tgggagtagt ggttgagatc aaccaagggt tagaatagcc 240
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<210> 77
<211> 557
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. AA818702

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<210> 78
<211> 537
<212> DNA
<213> Rattus norvegicus
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<400> 78						
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<210> 79
<211> 596
<212> DNA
<213> Rattus norvegicus
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<400> 79						
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<210> 80
 <211> 544
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818747

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<210> 81
 <211> 488
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818770

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<210> 82
 <211> 561
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818774

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[illegible]

<210> 83

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818781

<400> 83

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<210> 84

<211> 563

<212> DNA

<213> Rattus norvegicus

$\langle 220 \rangle$

<223> Genbank Accession No. AA818796

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<210> 85

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818801

<400> 85

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407

<210> 86

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818907

<220>

<221> unsure

<222> (1) .. (582)

<223> n = a or c or g or t

<400> 86

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<210> 87

<211> 612

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<213> Rattus norvegicus

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<400> 87

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<211> 598

<212> DNA

<213> Rattus norvegicus

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<210> 90

<211> 491

<212> DNA

<213> Rattus norvegicus

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<211> 498

<212> DNA

<213> Rattus norvegicus

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<210> 92

<211> 188

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 92

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gggtggcagc gtcaagttcc acagagtcct gccttgccgg gtgtctgaat gtacagctcg 180
gggtcact 188

<210> 93

<211> 318

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 93

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actgtaaatc tttctaaatc tctgcaatgg ctctaaatga gggtaagtga ataagtggaa 180
gtgaaggaga atggagggca ggaggtggag ccaactccagg taccaacca cccagactcc 240
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cagggcatag ctgagaga 318

<210> 94

<211> 583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819055

<400> 94

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aactattcag aaaagaagat aaaagatagc acttcctttt gccttgctta taggtatgct 180
agttggtttg ggctgttggt tgattttctt ctttgaatcc ttatatgaca actgctggta 240
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<210> 95

<211> 281
 <212> DNA
 <213> Rattus norvegicus

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<210> 96
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 <212> DNA
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 aggcgaagtt ggtagtaggc aaatttttaa aaagtgatag agtagcgatg gtattatttg 420
 aggtaaacat tatgtattca cttcttgaaa tctacagtga tcttaacttg tgctttcaat 480
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<210> 97
 <211> 444
 <212> DNA
 <213> Rattus norvegicus

<220>
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 cgatgaaact gctactgaat ttagagaggt gatgtccgcc tataagagca tttaaagagt 180
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 tgacaatttg aaaaacaaca gcaatacaac aggccaccag atttgctttc ttcctaagaa 300
 actcaattat aaacacttga agtaataggt gagaaggcag atcaagcatc accaggttta 360
 agagcaagaa aggaaaaggg cagaagttgc cctcaaatca ggtagacatt aaatgccaga 420
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<210> 98
 <211> 351
 <212> DNA
 <213> Rattus norvegicus

<220>

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ataggcttag tacagaaatg ttcatacagc atttgagagac aacaagaaca gaggtatagg 300
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<210> 102

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819530

<400> 102

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acgtggaatg gcctgggtgag acgaacagtt tcaatacctg gttacagagg cacaaagtca 180
tcctgatgac accggtcact gataaatccc cagggacact gggatcggag aagaccgggg 240
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ggcaagctag caagcgaact gttcggccgt agagcgtgac gagggagggg ccttccacgc 360
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gcctaccctt cccactacac ttctaggctg cagagagcta gcccggggtc tgtagaggca 480
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<210> 103

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819672

<220>

<221> unsure

<222> (1) .. (485)

<223> n = a or c or g or t

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aagcggcact caggcactag tcagccgttg accatacaag aacagagaac actggagtag 420
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<210> 104

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819709

<220>

<221> unsure
<222> (1)..(597)
<223> n = a or c or g or t

<400> 104

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SEQUENCE LISTING

<110> Mendrick, Donna
Porter, Mark
Johnson, Kory
Castle, Arthur
Elashoff, Michael
Gene Logic, Inc.

<120> Molecular Toxicology Modeling

<130> 44921-5038-US

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<150> US 60/222,040

<151> 2000-07-31

<150> US 60/222,880

<151> 2000-11-02

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<151> 2001-05-11

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<151> 2001-05-22

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<213> Rattus norvegicus

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<212> DNA
<213> Rattus norvegicus

<220>
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<210> 7
<211> 328
<212> DNA
<213> Rattus norvegicus

<220>
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gagtgcgggg atgcggtgaa caaacatata aagtgagaat tcttgcttca gtgaatatta 240
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<210> 8
<211> 591
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 9
<211> 683
<212> DNA
<213> Rattus norvegicus

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<210> 10
<211> 731
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799511

<220>
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atcaacaccc atttttgaa ttttattaag aacctgtact aaatgaagtt ttaaatcaga 180
aaacattccc ttttacctta aaagtgttc ttaaataag gcaccaacaa gaactacttt 240
cagatgggtac agaatttctt atttcttgaa gactctgtgg ttgaccactt ctctcattag 300
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cataggtccc ccaggtccgg aacaacaaag ttcacctca tgacccttgt aaaggtgcgc 600
tcngccgctc ggccaatctg gcccaggcaa atcccaaagg gcccataatc caacaggcaa 660
cgttcgggg aatgttccgc caatccaaaa atacgggcaa agtaaccggg gccaaagtgc 720
accacaatgt g                                     731

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<210> 11
<211> 483
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AA799523

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<220>
<221> unsure
<222> (1)..(483)
<223> n = a or c or g or t

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gaatgcttct acactcttac aaagaccact agaaagaacc aacattttaa aggctagaaa 240
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cac                                     483

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<210> 12
<211> 570
<212> DNA
<213> Rattus norvegicus

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<220>
<223> Genbank Accession No. AA799531

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<222> (1)..(570)
<223> n = a or c or g or t

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caggaaagat acaacatttt catccagaaa aggaaatctt gcttcctttc catgatcagc 360
aataactcta tcatcacgac caaggtttct agaagaaatg cgacccaatt ccattgctat 420
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<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799545

<220>
<221> unsure
<222> (1)..(633)
<223> n = a or c or g or t

<400> 13
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tcctttgcaa acaaagatgt ccacagtgtt cctggaactc tggctcagga aaggggagac 180
tgctgggttct gtggttcagt caccttgctt agcactcact cctggccagc atctggagca 240
ccggtttgcc ggttctgggc atcacccttc ttcttgtggc cagagacaat gtcataatc 300
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ggctcccaaa taccagctc tttcatgtcc actaaggtag cagtctcacc attcacaccc 420
caggtctcac aattctcctg tgtgtgcttg gccgaaggg aggtaagcag acgaatggta 480
ctggccccac agttctggat caaggtccga nggatgacct ctaaagcctg ngccacagcc 540
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acagccatct cagaggctcc cacacaagca can 633

<210> 14
<211> 604
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799560

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cccagtccca ctttaggtgc aactgacag ctattaaagt tagtgcgcc aaaggaccgc 180
ggccccctcc taatgcccct gttcaatgt gtttaccatt gttcttctact ggccaccatc 240
tcccgttctg actttctttt tacatgctgg atatgtctat cacgttaagg atcagtaaca 300
caccagcaaa tattcccctg agagacatcc atttaggagc attgccttca gaggccttaa 360
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tacacataca cacactctcc tacccttgca aatatgggct aaagaggggg agtgatggca 480
tccccgtgac agctaaaaca acttattgtt cctcacctat agaaacaagt cagagaggga 540
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aata 604

<210> 15
<211> 541
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799576

<220>
<221> unsure
<222> (1)..(541)
<223> n = a or c or g or t

<400> 15
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agacaaatac ctcaactatg atgatctaata ttttggtgaa taatatacat gattagacag 180
aaataggcaa gctcacactg gaagattaac tatcaaacac tcagtcaaaa ctccgtttat 240
ggccccact tcttgatcga tttctgttcc cacttcgtct tctaccgtct tgccgacttc 300
ctgaacgact cccctgtcga ctctgtctac ctgatcggcc accagatcga ccaccagatc 360
ggcctgaacg gcctgacctg ccgccagacc agccgctcct ctgtctggga ttagaagatg 420
tgtttccatc ataataattct tcaatttcag gtaacttgcc tggcactgag agtatccagt 480
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a 541

<210> 16
<211> 590
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799599

<220>
<221> unsure
<222> (1)..(590)
<223> n = a or c or g or t

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aggcataaaa caaagctgag gtggagagac aagcactttc tcttttaatt tattaacact 180
agcttaaact ttgttaaaga aagagtaagg aactatgttt taggagaact gcagggcctc 240
tctttctggt gaaggctgaa tctcacacag tgttgatcc catgtagggg aaaataaaat 300
taattcccca cacactccac aactgtgct ctgctcctg gaactttgct ccaacctcct 360
cctcaaccaa cctcagcatc tccaaaccan aagacagcta ggagaggaca taatcaaata 420
ttaggtcctc agggaaagga gaaccaaagc aatagaatcc acttcagtcc tgccagatag 480
cacctcatgg attcctctca gtctagcana aacaggatat gaggactcct ctgaataggg 540
cagaaactgg cggttagtct attaacccat accaaattag gaatcgacaa 590

<210> 17
<211> 687
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA799601

<220>
<221> unsure
<222> (1)..(687)
<223> n = a or c or g or t

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ataccacaaa gattacagta agaaaagcac tttatgacaa tatttcacaa attcacaagg 120
atcactttta tatacaaagt aactgctacc attctgaaca caaagcagcc agtatgtaca 180
tagtggttaat aaaatgcatg gtgtcttggt acttttattc tttacacata aagcacaaaa 240
agatttaggt aaaaaattta aacagggaca tttctagatt gtgggaacgt tattagaagt 300
gtatgtccct tctcatagtt attagtattc ttctccaata ggaacatcag agttaagact 360
cataccctgt tttgtgctaa cagttccggg gaggtatttt ctactccagt actcaaggaa 420

ggcttcttct tgaagtaagc atcagtcagg tgtttgggaa ttttaacctt gctgatataca 300
 actttttagt aggtggcgat gacaaacttc tggtgtgtcc tacgcagagg aactctgttg 360
 agggcaagag gtccagtcac aagtagcaag gaccttttct ttcttcttct tcttctcaac 420
 ctttgtcttg gcagcagagt atttcctttt gtacaaggcc tttctggaat acatagcaga 480
 tcgtgaatac ctgccgattc ctctcaccag gacagggttc cggctgcaat ggggcttact 540
 cttcctcagc tttttagcct tagaactact ctttttgacc gcaccagcgg gccggggccc 600
 gggggcagta gcatca 616

<210> 21

<211> 588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799729

<400> 21

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 tgttacagac gtaggaaccc attgggtcatg cacattttgt gccattttct ttaactagtt 180
 gtcacaatgc tgaacttggt tgaagccatc tcgctgacag agcggtaggt ctggatgggtc 240
 tctagctggt ctaggcacca gtctagttcc tccagcgtct ccattgctag tttctgatat 300
 gattcttctg caaacaaca cacagacagg tagttaggct gcagcggctg caggctggcc 360
 atagccgagt ctctccgccc tcggctgctc ccggcgccac tgacgggtgcc cccttgctcc 420
 ttcattgttt gcttgccgac tccttgcttc caagctcttt ctggtgctct gcccgggagg 480
 gggagtggct ggtgccaagt tttcaccccc tcgccgggat gaggtgtcag tgatctacca 540
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<210> 22

<211> 616

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799744

<400> 22

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 tcttctcaat aatttataac atgggggaaa aaaagcacia aaaaaaata aatattgaaa 180
 tgaaattgcc aagtggcagg cggctgagga tgccaggcct cggcatgatc ggcattgtgtc 240
 cctgacacct tttgaaatag ttaaagcttg ctttaagaag tcagaggaac aagacagaaa 300
 actcactttt atcttttaaat aaaaacatcc atatattatt aagttgtgac aatgaaattt 360
 cagtgcacag aagccatggg gcatgctcac acccttccca gccccctctt ggcaggtgtc 420
 ctctgcaggt gctccagtgg tactgacagc cctgtctccc ctggccgcca agagtatggg 480
 gcctccaccc aggaggacca ccagaggcca ggagcgggca gcaagccagt cagtgggtcac 540
 ctgcctaccc tggagaccac tcattccagt acccggcctg ccagcaccac cacagaaaga 600
 ctgatggagg ctgttg 616

<210> 23

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799766

<400> 23

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ttctcacagg acttaagcca ccgctgcaca ttggtgggcg ctgccccact gcttccccca 180
gtctgctgga gcacggacca cagcaccaca tctgccacag tgagctcatt cccaaccaac 240
cacgggcttt tccccaaagc ggagttcata gagcggaaaa cagccgcttt tcccttactg 300
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acagcgttat gcttctgacc aaatagagag aacaggaagc gtgcgatgtt cccttctcct 420
tcaatggggc acatcgtttg tacactgaac ttcatctgtg tcttgggcac gttcttccaa 480
atcagagtga agcccagctg atactcgtgg cgggactgtt ttctagcctg ctccccgaag 540
cacttgagaa gattctcagg tacattc 567

<210> 24

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799803

<400> 24

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tggattctaa cccaatgaat gctggcttca gttttcatct ccaatctctt tcttgatcca 180
gtcaacataa ttcagtaact tgggtgtaaaa gccgtatccc tcaccacacc caatgcccc 240
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cccactgtcc ccctggcagg cgtcatgctt gagagtgtgg tccccagaac agaacatatt 360
ttgagaaaat acatcattac tgtttttctg cgggagccac ctctggcatg cctctcgatc 420
ggctatgggc agacggacaa acctgagatt aaaagctatt ttatcttctg ttatcccgaa 480
gccgtgaca taaccataa ggtctttgtc ataaaaggctc tcattgtctg ggagacagat 540
ggggaggagg ttggga 556

<210> 25

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799804

<400> 25

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tgtagcttg ctgtgatcag aaggatagcg ctttgctgta atttatttaa aatgtacct 180
acagcttccc tcacagtaac ttgactgaaa ttacaacagg aaaagaaacc cagcatttat 240
tcttaggttt agacataacc cacacaaagt tccaactata tggttctat actttttctg 300
gaaggtgcgc aaaagaaatt cggatctcac tttagacca gaatttcaga tgcaataagg 360
caacctctga agtccaaagt tcaatgaatg cacaacagtt caagcagcag ataccacctc 420
agaggaaata tttagtttgc ttctttgttt ccctccagt ttaatcctgc taatgtctgc 480
taagggtcaac catgactgga acacatgctg ctgatccagt tgttcaagac cagcctgggc 540
aacacggcga gacactgcct cagaacaagg agtgaaaaca ga 582

<210> 26

<211> 500

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA799812

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gtttatattc agatagcctg attctctcct ctgaaatgaa atggagacca ttgtaaccta 180
gggtgaacga acacacttgt tcttctgtat agacatgaat tctttacata aactcaacat 240
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acacagacag acacacacac agagacagac agacaggcag gcagacacac acacacacac 360
gcacgcacca ctcttgagaa gcagtgttct tcatggacac ttactagaag gtcatttctc 420
agaagggtct aaaattctga atatttggat gctatcatcc ccccgcccc aagaaaatcg 480
tcttgtttca agtgtgacag 500

<210> 27

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800059

<400> 27
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gacctgcac ggaggtggtg atgggggctt acaggcatag ggcattggtg agggagtggg 180
atgaccgccc cacccccaca cagcccagac cttttaagct actaggctct tcctctgtaa 240
gaggagagat cctgggtgac aggagtccct gggacctcat caccttctct ctaagtcccc 300
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atttccaatc acatagtcaa atggactgat tgatacaacc acatgacgtc actgtattgg 480
ctcatgcac tagagagcct gggagaagca aaccataagg tcctgggcag aacccccggc 540
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ccaatgtcat gg 612

<210> 28

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800169

<400> 28
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attatcatca agatgggaaa catgggcagt actggcactg ctgagagtgc tacatcttgt 180
tccaaaggaa accagaagac tgtcttccag gcagctagga gaaggctctca aagctcactt 240
ccacagtgtc gcacttcttc caacaagtcc acactactaa tagtgccatt ctctgggcca 300
agcatattca aacacatgag tcgatggggg ccaaacctct tcaaaccact acaagtagaa 360
ttctcatgaa atatgacttc atgattgcta gactctaata caggattttt catcttgtct 420
tttactattc tcagtataat caaacactga aatatttact tatgtgacta tataagtcac 480
acacaaaaat gttaaactaac attaattagg aaaattttca agataaatta cttagaaata 540
atttttataa tcccaacact taggaggcaa aaagcaagta agtgtaactt ttttcccc 599

<210> 29

<211> 613

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800243

<400> 29

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cctgggtacc accaccaaac cccgttcctt cctctgacat cccacagcct gtaacagatg 180
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agcacataag cgcccgcata aaccaggaac tgtccgggtca cctggggcagc ataggatgcg 360
aaccgcagca gactccttaa caaggccttg aagcttgtgc agcggatatc atacgacact 420
gagtacatct catacatggt ggctttgaca ttgagacagc cgagggaagtc cttgggattc 480
agcctgtata ggtcgaaggt gactctggct attcctgact tctttgtttg tgtgcagaca 540
tacttattgc ccggtgtcca tttctgtccc tttccaaga tcatgaagtg tgtgttgtct 600
cttaggtct gaa 613
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<210> 30

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800318

<400> 30

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tgaagatctg ggtcctcagt cagcccacac aggttgagat cgtaagtga gtcaaagaat 480
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<210> 31

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800339

<400> 31

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agagagcagt ctagctttgt tattttccac cccctcccta gaccagctc agaagttgct 180
cgggactact agctaccatc tgcttaacct tctcaggcaa gagcctaggc agcttctagt 240
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gatgggacac agtgtgcatg aggacgggag aacaaagagc ctgggacaat ttatgttata 420
ctgaactgtc cattcggttc attcattccg ctaaaccgtt cataaaatta agagtattct 480
gaatggccta tgtctttctt ctctccccag gactcctaga agcctgcact ttccacaaaa 540
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<210> 32

<211> 678

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800429

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tggtcagggt tggagctgta tgaaatctgt aatcctagat ctgtcttttag gaaaccaata 240
ctgttgacaga ctctcctgtg gtataactaag cctcaaaatg acctcttcct aaaaggacct 300
accaaagttg tacttgggtc tggagagaag gttcagtagt tactaactag cacctgttct 360
atagacccca tattccattc ccaccacca tatggttcaa agccaacagg aattcaaatg 420
tcatagtacc ttacaccccc tgctggcctc tcttggcact acagagacac atgcaaata 480
agccctgata ctcatcaaat aaaattaagg attaaagaca aatttttggtt tcatgaaatg 540
aattctactt ccattcaaca ttttacaaag aataatggga ttcactcatt ttcataatta 600
gcctttggag gcagatataa gaatttaatt tatgttttga tagtacagaa taaagactct 660
aaatatgttc tcacacaa 678

<210> 33
<211> 572
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800551

<400> 33
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tgctatacta ccaacattaa attgcagtta cgttggagcc taagttgaat agaaagcctg 180
taacagaccc aaggaacgcc tttcctggac tatacatgca aatcacctct caacatacag 240
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tttgggaagg ggaaaaagggt gatgttttca gtttatatat atatatttat atttaaaatg 360
gcacagcaga agggaatgca atctagaaga gcaagccctt aagcagtagc ttatgataaa 420
cttttaggaat gtatcatttc tatcactaat atcacaggcg aaatgtatta tgccaccttc 480
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acagaccaac atgtaactaa ttgttttctt tt 572

<210> 34
<211> 551
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA800576

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tgcaaggcca gagctacagt ggcaagctgc atgtggctgc gcgcaaagc tcagtgggtc 180
tcagcgaggc tcccgggcgc tcgctgctct aagcatgcac ttggaaaccc agctcatcag 240
tcccttttaa acagagacgg gatgatgtag acccaccacc aagactcgcg gaaggggcta 300
cttaccacaa cctgcattaa tttataaagt gagatcctaa gtcaaacatt cacagaaagg 360
catattcact aggagctggc caggcagact gtctttctta gtgacctgtc tgctggctgt 420
tattatagtt agcatttaaa aaaagggggg gactgaattt taaaatagag cacttggcgg 480
ggagagttaa tgtgtgcatg tgcggaagcc gctccctgca ctctgctgta ttcaacagtc 540

aacactgcac a

551

<210> 35

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800739

<400> 35

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ttgtagtatg aaagggccat cataaatatac aaactgttat ctccggtttc tactcacagt 180
tgacttaaca attctccgct cccgatgaaag gaaaacagtg tatgaagaat ccccaagtag 240
attccaaccg aagccacctg gtatTTTTTgg agctgggtgct caatgcctca gcttatgcag 300
cacactcagg gtatggcaga ggcagttaag aaaatgagtc aaatttagca tctcagtact 360
acagtgcgct ttgcagacct tcggactatt tttcctagcc aaagtacagg ggaattcaga 420
caagagccac cgctgcagac cactatccca ttagtgcaaa ctctgggttca gatactgaag 480
aaacatgttg gccaatgag gcaggttctc attgttggga tgcattttag tgtaggaaat 540
aaactggcga cggaggcgac tcaattctgc caaggtcaag ggacgggtaa atcggaggtg 600
ctccgtggtg                                     610
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<210> 36

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800797

<400> 36

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acagccagtc tttcagacat ggatggaagg ttggcggttca ttgttggtga ggttggttga 120
aggctgtgcc ttcagcttct gggttaaactg cagtgaagta gccacagggt agttgctgag 180
aatcatgttg caagcagaac catcgacat gctgaaactg gccacagagg ttgtgtggag 240
gctcctcctt aatacgatct gtggaaatga gcccggtggc ttcggaaaga acgtgccag 300
taacgaaggc tccaggaagg ctccggtctc aggagctctg ccatgctgac cctcgtgcc 359
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<210> 37

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA800962

<400> 37

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ttggctggaa gctgctggca ggttgagca gctggagccc tggcagggtta aaactgaggt 180
atggcagcgt taataatact ctggagcgt taatactctg gaggggacag gcaactgggg 240
ccctaagggt cgaaggcact tggagtcagg gagaggacac ggcttgcaat gggactgggc 300
aggaccaggc ccgggggttg gcaggcactt tggggagtgc tgggggttggc agcttggggc 360
ctgagcagcc cagaaggctt tggtagtggc aggcacagtc tctgggctgg gtctgcatta 420
aatacagggg ttcctcagt gctcgtctcg aagctctgaa ggcaagaact tgtactgctg 480
ctgccggatc tgggc                                     495
```

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<210> 38
<211> 560
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. AA801076

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<210> 39
<211> 437
<212> DNA
<213> Rattus norvegicus
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<400> 39						
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tagtggaaaa	tgttcttttg	tctcaaactt	ggatattgct	acctgaagta	ataaacaccc	180
caagccagaa	acttggtcag	tgctggcaac	atTTTTTgag	tgTTTgtgat	ccaggaatcc	240
tagagtgacc	gcctgccatt	aagatttttc	caaggacaga	gtcatcccaa	actcttgttt	300
aattaccaga	taaccagatt	ctttatcaga	attatggaat	aaaatatgta	ctgtaacaaa	360
taatttttag	aagaaaactg	tttaagataa	tgctcttaac	atTTTTTTTT	gcaaacattg	420
aagattacat	tgaagaa					437

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<210> 40
<211> 485
<212> DNA
<213> Rattus norvegicus
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ctgggtttgg	cctgtagcta	ccacagccag	ttcctggact	gtacgtgtct	gccagacgga	180	
aggagaagag	aaagtggtag	gatgccttcc	tgacctcacc	cggccctcct	cgcgggagcg	240	
aggcactcca	ggtggactcg	agggccatcg	ctggctccac	ctctaaggtc	aaactggacg	300	
tcagacgtcg	gggcctgggt	gccagagggg	ccagaaaac	tgagggtccc	gtctcagctg	360	
ttaaacaggc	tgtcctggag	gccctgcctg	gatctggggg	tgctggagca	gcatttcccc	420	
cagggccacc	cacccttttt	tgtaaattct	gattgtaaat	ccaatacagt	tgtctttttc	480	
actca						485	

<210> 41

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<211> 416
<212> DNA
<213> Rattus norvegicus
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<211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817726

<400> 44
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 gagttcactc aatacattaa caataagcaa atcatacaga tactgagggg aaggatgtcc 120
 ccttgactac atacacatat atgtatctat tcttaagaac agcaatcaag aggttaacaa 180
 taatggaagg aagaagtaga caggtaagtc actgccaaat aacacaagtt cataatgatc 240
 ggttactcaa gtaacctggc aaatgcctgc tcagaattta catttacttt cctcattgac 300
 tttcttgccct ttgtgtttca gtgaatttgg actaggtcca aaaactagac cttcaaaact 360
 ccatctctca cattcagtgc tgaagatggg catgaagggtg gagtatactt gagaacatgc 420
 atggtaacga atgtcaaaga gttttctcac agtgaccttt cccctgtctg cttcttccca 480
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<210> 45
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817761

<400> 45
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 ttacaacaga gattctccag cttccagccc agctctgtcc cctgacctgc tgtgggttcc 180
 ttgcacactc acgcctttca taaagaagga ggtacacaca gtagaacggg aggggtcggg 240
 agaatgagca catgggggat tctgtgtgca tgggggacag aaagggtctgt ctgctccact 300
 gagtgtcagc cactgcgatt ccaaacagaa aagaatgcaa gttgtcaaca agacacactg 360
 tcctcaggag gagagatgat ctaagtcaat cgaaaaagaa cgatgggtta gtacccca 420
 gttccccagc tgaggtgcga aagccataga taggattgta aacatgcggt tggaacaggt 480
 tccatagaaa actcagtttc tcacggaaag cttgcacagc tgctttattg gctgtgtgtc 540
 tctgaagagc aaggta 557

<210> 46
 <211> 605
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817829

<400> 46
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 aaccgtacaa agaacataat catggaagca cggttacagg ggaagcagaa gagtctgagt 180
 agtgatttca ttctcactga ggagcggcac cctgaagaat cgagtccatt agtaacactc 240
 accgcactga gagcagaggg gcgttagcga ttgtaactga ttattttttac tgagccattt 300
 catcttcctc acagtgagaa gaaatacaat ataacctta taagaaaacg acctcattac 360
 aatctcggta aagggtctacg gcttatggag tggagcagag ttcagggtgtg cttgcgggct 420
 ccggcctcac cgtaccatcc cacctgatgt gctggacaga ggccgctctc tcatgcgccc 480
 gcactaactc catgggagct gcaatagaat gaaccatttc tgtggcggtc ccagggtctc 540
 ctgaggaaga aaagacttca tacacataaa tataacaatt gatctgtcta taaattatag 600
 tggtta 605

<210> 47
 <211> 612
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817841

<220>
 <221> unsure
 <222> (1)..(612)
 <223> n = a or c or g or t

<400> 47
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 agcacatgac caaaactttcc tggatcacga accaacagga gatgtgaata gcctgtagat 180
 atcaattcca acagctttac aaaatgtcat tcatctaagg cattttctgtg gttctcacgg 240
 ccacatgttc acatacataa aggcctctat tcatggacag agagatacgt tctttaggag 300
 cagtgggtgc aggaggcgaa agcagttaca cgcttagtta ctgagtaatt ttaaagagga 360
 aatttggcgt tccaagaaac agttttgtac atccaaaaaa aaaaatcaat gataattttc 420
 cacttggatt attttgtgat gcagactaca agaaaatcca tgctggatta ttgctttcc 480
 aaaggccact ttcaaagtac agatttcgag tccagaacaa ataccacag cgagaacaaa 540
 cagaacggct aagactctaa catttgcctc catgtggcctt tctcctcnc tcgattctct 600
 gacattttct ga 612

<210> 48
 <211> 622
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817849

<400> 48
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 tctacttaaa gatagcacag gaggagatcc gctctgcttg tcttgctggt ttataggggtg 180
 caactcatcc tcctgggttc tggctgctgg gtacaggggt gagagtggg ttagggttgg 240
 aaaaaacatg gctgtgggta gcacgagttg gcttttgttg tgtttctttg catagggtgt 300
 aggagccgag agcagctagg gtgaggatcc agaacacagg cttgacagtc cccatcctgt 360
 ttgctgcca ctggcctggg gcactctgct tatctttgag gaagtcctag gaaatagttt 420
 ctgtaatgca tcctgatttg aaatcagtga aagtgttttg gcagtgggaa aataacaatc 480
 ccacttcaga gatctcaca acggaaaatt tgctctgcaa aaactccttt aaacgctaac 540
 tgagacaaat gattccgtgg gcaaggagac tgtcagccag agctctgtaa aatgcattct 600
 gctagttaac agttctttcc tt 622

<210> 49
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA817921

<400> 49
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ccatctatac cagtgtcaaa tgagggaggg aggggaaggg agggcagagc agggagacga 120
ggggaggagg gaggagtccc ctctactggg aataaagctc caggttcatc ccgtcgtgga 180
tctcatagtc tcccagagac acgtggtctt taaaaatcgt gtaccacttt ttaagaacga 240
tcttattcca gcgggtgccg gtttgagccg ctatcagttt cttcaggtcg ccgatgggtgt 300
catcgggtgtt gcacttaacg cggactttct ttcctagacg gtcgttgcaa accacctcaa 360
tcattgtggc tggagccggc tttgcctccc gcaaccccta ggctcccaag tcttggcagc 420
ttcccgcgat ctccggcctc tccgtttagc cttctcacct ccaatgtcct cgaacctagc 480
gaccctcgtg ccg 493
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<210> 50

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA817925

<400> 50

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ggcacggcag tcctcagaac gggcactgag acagcacctc atgcgtgtca ggtctttaat 180
tttttccctg ccagagcttt ttctttcttt gcttcgttgt tactgtgttt tttctgttta 240
acaattcaat tggcagaaaa atggctatcg ctggtggaca ttaggggtgc agtgaaaaaa 300
aaatcccccct cccccaattc ttgcttgcca ccgtgggaga cgagggtgagg gttcctagag 360
gtttcccaac ccacctcaga gcttcc 386
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<210> 51

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818039

<400> 51

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agctccgagt tattaacaa accttgctct tgtacaactg aggtctgatg gttttaagtt 180
gatgcctggg tgcagggccg gacacaacct tagggatggt tcttacctgt acatacatat 240
atataaaat attccacaaa tgtgtgtata catgggcatg tattaattta cgtggggaat 300
ttataaaatt atatatacat acacatacat gcatactat atacagctcc ccacctcac 360
cagtgaagctg ctgaagtagc tcgttagctc cgtgctcgat tattgctgtc tgggtataact 420
acatgattta gtgccaaagc cagacacatt ctctgggtgt ggatgggtcac tgcatatag 480
acacgtgtat ccttgatgac cgtgtatgaa gagcattgct cccatgtgtc aggcattgcc 540
taccacagta aactgccttt accac 565
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<210> 52

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818089

<400> 52

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tggacacgat gagtatttta ttagcacagg ttgtcacaag tcgccagctg tctcattct 180
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tccactgtct ccttcttgcc agtctcttgc ccttcaaaga gggggtacct ggccctccaca 240
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tctgccctta tctgtctcat ggagtctcgg tccctcagag ttgcagtgtg ggggggtcttg 360
ttcactgtat caaagtcaat ggtgatgcca aacgccacgc caatctcatc agttcttgc 420
tatcgccctc caatagaccc agaggaatcg tcaactttat gagacacgcc atttcgagtc 480
agagcttccg ataattcctt gacaaatggc ataaactctt ggttt 525
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<210> 53

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818105

<400> 53

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acaagatgga tcacgacaac taagggagtg acttcttttg tgcccagggc ccttttacag 180
ctgacccatg gtcceaagta atacggactg aggaagttca gcaagtggca gcatcaatga 240
gtggacctgg agcttattca gcataaatat tcaaggatgt ctagactcaa ggggtggagag 300
ggtcagcact gtaacaccag gagcagagtt cctacggtag atctcctcct cctaactata 360
agaaggcagg tccctcatac cttgggtctt caagacatag cagcaccaca cccactgcc 420
ccaagcagct tcactctgct acaagcctct ccctgcgaat gttttcagag tgattgaatc 480
ca 482
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<210> 54

<211> 535

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818107

<400> 54

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ggtgttcttt gtagggtaga agccctacaa aggggttgtc agagctgggc tgggacatag 180
cagatactgg gctggagttg agctgagtg cgttggttaa tgaagggtgaa tatgagatat 240
ggtgaatgca aagtgagaac caggaagtgt ggagttagcc caggctagta gcctaaccaa 300
tcttagcagt cgactgactg agagagaagg actggtgtga ctgattttta aacaaagcaa 360
aaggagctgg gaatgacggg aggccttgta caccagacct ataatccag atacctggaa 420
gctgagacaa gagagtcgca agttcaaggc cagcttgagc acgtgtcgag actctctctc 480
aaggtaaaaa taaaagagga ttgcaattta cttcagagtt tgactggcac cctgg 535
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<210> 55

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818123

<400> 55

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ggactccagt cagaccagaa ggctgccaat caaacttggt attggcagag acagcagcct 180
ctttgatctt cagaggtttg taaaagcttt ccaccctaatt ttctgagtat cataaaaagt 240
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aaaaagcact tttattctgt ccttttcccc ttttaattttt ctttttttaa ccagcaaaaag 300
gactacttat ttttatgact tcattttttat gagcacaaca gttctgtcaa ttacttagag 360
aaggaagccc tcagagatgt gtcagtgggtg ctgaggtcca ccgaggccca caccaacagg 420
tgtggcattc catgctatca cttctacaaa gaaccatgaa gaatgcttgt agaccctatg 480
tacagcatat agtccacaca tgcttgatgt gcgtccatac cacgatccag taacagcaaa 540
gagaatcccc tcttgaaata aaaaaaa 567

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<210> 56
 <211> 518
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818139

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<400> 56
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taacaaccat ttaaaccatct tttaggcact tgggtggaaaa gacactggag aatgaccacc 180
tactgactgc tataagcaag tggtagggat gaaggctggt ttcctgtcta tcctttaccc 240
acgggcatca ctaacactga gaaacaacac caggacattg caccacatt gcaagacatt 300
ccagtgtatt ttaaaggagc cgggtggtag tggtagcagg ctttaatccc agtacttggg 360
aggaagaggc aagcggatct ctgagagttc aaggccagac tgggtctacag agtgagtcc 420
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<210> 57
 <211> 363
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818158

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<400> 57
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catgaagtag agaataagca ctaaacacta aaaaaaaaaat aaaataaaaat aaaactttta 180
ccttacttat taaactagga agaatttttc tgaaacgcac ctgttaaatt agtctataat 240
atattaatga atggaggaca tgtatttctt agtaaatatt ttaaacatga agtatacgct 300
tggggggaaaa aaaacttctc aggatatgaa atttttcaag tctcaatccc ctgaacagac 360
taa 363

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<210> 58
 <211> 357
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818163

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<400> 58
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agtgaagtgg aaacctaaat ggtcacagcc tacacatcac agcgtataca gaatgttggg 180
catattaaat gtacagaac acttgggttt ctggttgcct tgctactaac ctgactcttg 240
attttgtgta tgtaagtttc tatactcact tacttttctc cataagagaa gccatacata 300
ctgtcactgg taattgtaaa gaattacagt tccccttata aaacaattac aatttta 357

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<210> 59
 <211> 572
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818211

<400> 59
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 gtttaggtaa tccaacaatg gctgtcttaa cactggaaga acagaactgg tagctattcc 120
 atctacccag ctggggctct cggtagtctt aatgtggtgc tgaagttcca gaggattctt 180
 gggagagtcg ctgggtcttca gttcagggtg gaaggctgaa gacactgggt gctcatgaca 240
 gcaaagggca gcagcagtga cagcggcagg gacaacgtaa gtgagcagag aagatgagct 300
 caccaacaag acacgaaagc aaacaggcag caaacaaaaa caacaacaga agactagtgt 360
 tttcccttca gggatccttg ttttgtggcg gtgctggaag tgcttccac ctcagctaca 420
 tccacaggtc aggcagctca aagtctctaa gtgcagaccc tggatcctga cgctctggc 480
 ctctgtgagg acctgcactc acacacacac gtagtctctg agtccccgtg tctcaggatg 540
 ttcctccatc agagcagaaa cctacacctc tc 572

<210> 60
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818258

<400> 60
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 atagccatat atctatatca tggtatagat atgtcacata tgatataatg aagtgtcgta 120
 cagacatcgg aatagactat ggaacttgag cctagtgaga tcagaagtca aaatctaaag 180
 ccaggatgta tgatcagacc atatgttctt agccttgcca aacaacatgc tgctcttaaa 240
 atgaaacaaa tggatgtcac tgtgaagtaa ctgagatctg tctaggtttt ggtgtttatt 300
 cagaacactt tctttgacta cattaggaaa taagtgtttt tgctgagcca actctaattt 360
 ctagtttagc tttttaaaaa aggatatatt taagataccc cttaatatga aagttaaatt 420
 ctacactata gaaattcccc taaaaggctt aaaatacctt gata 464

<210> 61
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818264

<400> 61
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 actgcaggaa tagtcgggtc tcccaaagaa gcaggtgcca cagttgtccc acaaagacat 180
 ggagaagacc atgttgagtc acaaccctcc ccagaacagt tgactgggac agggctcctga 240
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 tctgtagctc taggaggtga cggggctctc tggatggcga gctagccagg ctggagctgt 360
 gggcttctcg aaggctctgc agcactcgga gcagctgggc cagtgagtcc tcaggagctc 420
 cgccacggcc tgtggatgag gtgcctgctt cttctgttgc ccggctcaag agctggtgct 480
 tttcccgaag agca 494

<210> 62
 <211> 429
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818271

<400> 62
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 tgactattaa ggaaaacatt aaatattaaa taacagaaat aaaatgtgta aacactaatc 180
 taactgggga ttttgctatt gcaactgtcc aatgaagtgg tttcaacagt acgaaaaggg 240
 tgaagacagg ggtgcttcca gtccacttag gagtcattgg tctcagttca ggggtccttt 300
 aataaaatct ggtccaggac aagaggaggg ccactccact ccactggctc tcattgggatg 360
 tattccactc ggtgaatgct cacgttcaag cttgggtact gagcaaatac ttttaaatccg 420
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<210> 63
 <211> 548
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818287

<400> 63
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 aaatggcagg taggaatttt ctgccttgcc cttctttact taagaacaga aaataactaga 180
 aagaccgctc cacacctcaa atccactggc tatgcatctc ctcaacgatt gcaggaattt 240
 cggtttagtt tacagcaaat ggcatttgcc gcagtccttc cttagactag tgcaggcacg 300
 gaaagatcac agtgggtgctg gacagtcctg ttccatccgg acacacctgc tggagggtcag 360
 atgctaacac aaagaggatt tatctctgac tcagatcacc cactgtgtgg gccagcatgt 420
 ttgaccacc cagagcccat cttacacggc ctgggagtgga cttcttgga gattctgttg 480
 actgtgcaac tgaaacatgc gtagatgcta tctattcctt ggagcgcttg cccagagtga 540
 aatggaca 548

<210> 64
 <211> 554
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818288

<400> 64
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 gaaaaatgaa aaacacattt taaaagggtg ttcatttttc attccattag taaagccttg 180
 acaggctctt gaaacgtcag tcaagtccag gaagaactag aaatgcctga gacatttcca 240
 tttcagtgat tattgcaaat aaaaattcct cattgtgtct tcaaaaaaat ccctgagagg 300
 ccagcaagcc cattgtgcag acggagagac tgaggtcaga actccttagt ctctcatgg 360
 gagactggag catgtcagtg aagttattgc tttaaagtgt tagcaagggt tcgcaagcat 420
 tctctgtctc tccactgtgt ttctctggtc catggagaag tgaggacggt actggggtct 480
 gctctttgaa gaaccagtg tgctgctggg tggccccaga agcagcagag ctcggtgtgt 540
 cctcccaact cact 554

<210> 65
 <211> 551
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA818355

<400> 65
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 attttaagat catccgaaat taaagacaca ttgtaagcca gtccttggtg ctcttggtcc 180
 gtagcaaata gcaaaactatc aaaaacaaat acagttttaa aatgtttaag gtaacaattg 240
 ttcccccaag cctcagaagt tacatattat aaatgtgtgt cacctggcag agagggagtg 300
 agaaaggagg gattgggaca tcatgcatgt taaatgtttt aaggaagtgt gcactacttg 360
 ggctggggag acggcttagt cagcacaagt aggtataagg gcctgaattt ggcacagtca 420
 aaaacggttg gttcgatgga ctgtgggttat aaccccgagag ctggctcact agctatcaag 480
 cctagtctaa gtcctgcaa gccccaggcc agtcaaagat cctgtttcag tggaaagatg 540
 gatgacgcct t 551

<210> 66
 <211> 340
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA818412

<400> 66
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 gggcaatgcc ttcgccaaga caaatgcgct tcctgtgga gaagggcatg aaagcttcac 180
 tctttttcag tgccccattg gcatccagga agtgttcagg attgaagctg tctgggtggg 240
 caaagtactg tgggtcatgg agagctgaac tcaggatggg gtacacttca gtgttcttgg 300
 gaagcaggta ccctcggaac atggtgtctt cctcggtgccg 340

<210> 67
 <211> 564
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AA818421

<400> 67
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 cacagaaact tattgtttgt aaaacagaac tgtaggatg acatttttat ttttaaataca 120
 ttaagactgg ttgagaaata gaacaaaaac atagtaaaat gtttaaaaaa ttaaagaaca 180
 tttccaagt ataaatttta taaatacaaa acaaatcac aaatgacttt gaatgctaaa 240
 taaatatcta gttaataaat tcagttggta ctggctacag cacatcagag ctagcgaact 300
 ggactcactc atgtgtagtg ttgaaaccct atgacatgga gctcagacac actctctatg 360
 gtgtgttcta gcaggctcac cgtggagaca agacctcctt actactggaa ctccaaaggc 420
 tcaatgacaa aatagagcat agatgaaaaa tattttccaa gacacctgaa cacatgaatg 480
 atctcaaaat atacacaagc ctctgtaacc cagtactgta cccagtagct ctatgcaact 540
 tagtagacac tgaacaaaag ctgt 564

<210> 68
 <211> 519

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA818474

<220>

<223> Genbank Accession No. AA818524

<400> 71

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attaaggatg taaccagttt ctaacatgag cctattttct acactgctta tgcacatatg 180
cccattaaca aatggaatgt tgtcgggttac atttattggg ttgtgagtgt tttctggaaa 240
aactgcagtt atttgtgaag accaaagttc catgctagca ttgcatgcat ccaaataatta 300
atgcacagag gcacagtaga gcaacaagag agcatattga aatactagca caccctattc 360
ccctttttat tgcttggtta gcttaaactt taaaaaccaa gtaaaaatct gaattcagcg 420
gtcaactgcc aaagaaagta acagcagggc acatacttag gacttgaatg aaattgttaa 480
gcactagctg gcgcaacagc agacattttt tttttcaggt atatgaccac cttagtatct 540
aaagctcctc aaacagg                                     557

```

<210> 72

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818593

<400> 72

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tttttttttt ttttgttcgc aagcattttt attatattta aatcaaatat cattctgaga 60
aggcatgtaa catacacatt tgtacatagc atctttcaat aaaaaaatgt acaggtgggg 120
cagtgtttta gtgaaaggct taaatttttt ttaattgaac tactagtcca attaaaaact 180
caaaaaactc atttgtttaa agtaactata tacatagata aagtgggcat ccagagagta 240
tagcagcagc cctttaatgt atacaccagg gagtgatatg catcttcctg ccctctgcct 300
ccagcagttc ccttcgaagc tggcctgttc ctctgcaccc ttcagggctc atgattcctt 360
gcgtagctct gtctgttggt ggtttcgtgt agagtcgtat gtgagtcctc ttttctttct 420
ttgttagact ctgtggctct gaagaaatca gttacatata aaaccactaa tattgccaca 480
acagctcctt ga                                     492

```

<210> 73

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818604

<220>

<221> unsure

<222> (1)..(515)

<223> n = a or c or g or t

<400> 73

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cggcgccggt gggctcggtg atgatccgca gcacgttcag acccgcgatc acgcccgcgt 60
ccttggtggc ctgccgctgc gagtcgttga agtagggcgg cacggtgatc accgcgttgg 120
tcaccgggtg gccaggttac gcctcggcga tctccttcat cttggctcagc accatggacg 180
agatctcctc cgggtagaac gaccggttct cgcccttgta gttcacctgc accttgggct 240
tgtcgccgct gttcaccacc tggaagggcc agtgcttcat gtccgactgc accaccgggt 300
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ccacctgggt cttggcggcg tccccgatga gccgctcggt gtctgtgaag gccacgtanc 420
tgggggctcg gcggttgccc tggctggttg cgatgatctc caccttgccg tgctggaaca 480
cgcccacgca cgagtaggtg gtgcccaagt cgatg                                     515

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<210> 74
 <211> 470
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818615

<400> 74
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 ttagagagaa cacagacca cttcccaggc aggcaactgt ttccaatcc ccctcatgct 180
 acttctgtgc ttctgttcag aaaggtgata ctgtgtccca gccctagcaa ggctgaggca 240
 ggaggaccac cagtgtggga ccagtatggg ataggatata taaggaaacc ttggttcttg 300
 ttgtttttta agggaaagaa aaaggtaagt ttgaaaccga attgtgcaga accgatcaca 360
 actcatacta aggatggaga tagtctttta ccaaaaacca acccggtcac cagcactaag 420
 atttgtttct ctggatttga agaaggaatt gagaaaatga tctgcaccaa 470

<210> 75
 <211> 530
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818627

<400> 75
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 gttggtaact gatttacaga agcaatcaca gactgcaaaa acatgtgtgt cacacacaca 120
 cacacacaca cacacacaca cacacacaca cccaatcaa ggaaaaactg tgcctcgaa 180
 attttccagt ccaaagttct gttgggtgcgc ctctcgcacc cacggtgctt tcccatggct 240
 tccacacaac agctgagact tctgccctct tcatctctga tgagattttt cagcaataac 300
 ttacatttca tacattgcta gctgacgacc aatgtttccc atcgttatgc ctccagcaaa 360
 aaatatacat ggcaaccaag agcggacata gagaaaatct ggagatgtgt attgataaac 420
 accattgtag actaacagtt ggggtgacaac ggttgctaag aaagcaattc caacaccaag 480
 gccaaaacca cttctagatc tgtcaaaaagt ccaccatagt cctactgaca 530

<210> 76
 <211> 584
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818700

<400> 76
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 aacatagtaa aattttaata cagtattctg gatacaagta gaatagcact aagtaaagga 180
 ctgtagttac ctcagcagcc tgggagtatg ggttgagatc aaccaagggt tagaatagcc 240
 ctttcacatt tcatcagtc tgaccaaagc caaagcaagc taggatggag actacaacta 300
 accttccatg ttaaccagtt attttaaggt gacttacct cacttaattg cagttgaggt 360
 aagttaaaca gagagccctt acaaagacta agaaccaaat gaaaacttgt ttctagcctt 420
 tgtttttaggt caccttaaac taaaatgctt ttacgtactt cttaacattc atgtacacat 480
 tctttcaggc caaagtttca gcttgggaat cttgccaact gtatgtccaa cttctgaaca 540
 tttgcaatca gacaaattta ctgtataaaa cagtaagatt tact 584

<210> 77
 <211> 557
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818702

<400> 77
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 cccacctcta ccctggaagc tgccgccatg atctcatgct ctgggctgct aggataaggg 180
 ctacacgtca tcctcagaca caaggcagta gaagtctgtt cgcgcactgt agtttcgaga 240
 gccaaaggta gagacatcca tttcactggc atggccctct cctatggaga ccttgctttc 300
 gtgtagtggg gttggtggct ccccaaagac aggtccacgg acaccaggt ctccctcagg 360
 gtctggatcc agctctgact ccatggcccg gccctgggca gcacgtcctc tcacgattag 420
 catgggatct ttgtcatcct gaagtcgggt ttgggggtct ccctccacgg gtctgtattg 480
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 gccaggcttc caaagca 557

<210> 78
 <211> 537
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818721

<400> 78
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 tgtagtcctt ggatgttact ttctgtgggt ggcaccactg ccttcaagga agggaggcct 180
 ggaagaggct cgcagtctcg gtacccctca gagcggggag cctacttccg ctttctgtac 240
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 gagggccact gtgcgtgtct cttcggcctt gaacttgagt ggggaaaggc cagtgcgctg 360
 gaagaagtgg gagccatcgc agaagggtcg attcttactt cggccacata cacaccacct 420
 gtaggttttc ccggcaacca gctccaacct gatgggtgtt ttctgtgcca ccactggctt 480
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<210> 79
 <211> 596
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818741

<400> 79
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 aagaggctta cagtgtgttt cattaaaca agcaaagctg cgacaaaaca ggatcacatc 180
 aatagtagta tgcatacaga gagtgtagta atccatcaaa cacaattggg catctgtgcc 240
 tttcctcaaa aagaacaaga gctctacact gaagaatatg tagtgacaaa gaagcattgt 300
 ttgtaggctg tgaaggaaca taaactggca taatgtcact tattaattca agtctcgatg 360
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 tgtagtgtta tttccagggt gcacagctcc atacaaagac actaaagatg ggtttggaac 480
 atggcagcat ttacatatct gaaaaagttc aggcacattc ggatacaaaa gaaagggggg 540
 gaaatgcaaa tagaaaattc tcttaagtct ctgaaacaca gtgcaaaaatt gagaca 596

<210> 80
 <211> 544
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818747

<400> 80
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 ctgtcatata ttaaaaacga gaataagaaa gcacacactg cgtataggaa gctgccttct 180
 cctggaccat tttcacatta tctgggagac agaactgaaa caaaatacag tattcaccac 240
 atgcaacact gaaaccatcg ctgcgtagac actgcaagct ctgcggagga atgacttctg 300
 tgaggaagcc cctggtgacg ccgccgagat aatcacccat gagaagataa acagaactcg 360
 atggagaggc ctaaaggcct catgccaaagt cccacagagg aatgcagcct tttgctctcc 420
 aaaccctccc tcaaagccga ccaagcaatg aatcagaggg gtctgccacc tgggctgcac 480
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 gttt 544

<210> 81
 <211> 488
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818770

<400> 81
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 tcggttccca gcctcccagg cttgtcatcc tctgaaggct gagtgggggtg tctgccctgc 180
 accacagctc ttctccaaag ccgaggaaaa cccatgggga atacagggtg agaggacctg 240
 aggatcatgg gatgggagcc cacattgaac ctcggtgagg tagtctgtcg cctgaggccc 300
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 tcggtgccag agtcattctc ttcatcccca aagcagctgt cggcctctc cacttcaccg 420
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 tcgtgccg 488

<210> 82
 <211> 561
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA818774

<400> 82
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 tacatgcatt aaaaagtctt tcagctgctg cagaggaaac gtcagaagcg aggcctgagg 180
 ccggagctcc gagtctgcac gggacacagg cgtacacagg tagctcacag tatgcacagg 240
 ttaatgatg acacagtgc accggtggct tggttggct ggcagctgcc agtacgatga 300
 caatgtggct cttctgaaat ggaggcagcc ctgtcctgcg ccatcagccg ggccttgcct 360
 ggctgtacaa ggcttcgggtg tgtagtgtgc tctgggttgg tcggaggttg gaagcaccaa 420
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 aatggctgt tcctcagaat agataaagtt ccttagcctt agttatcatg cctttccctt 540

tacaaggccc cctcgtgcc g

561

<210> 83

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818781

<400> 83

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aagcagtgat acaccaaata caggcattat aaggattttt tttttaagta agtatctgtt 180
tagaatacaa tgttacaaaa gcaagaattg gattttaata aaacaattta ataaaacaag 240
gcacaatgtt taaggcaaaa tttatgaaga aagtatataa agttaatata agatcatatt 300
ttttaatatc ctttggggaa agaggcacia gaattagaaa tagcttaaac attttttttag 360
aatattagcc ataagaaagt aaaataaatt tgatacaata ggactctatt ttttccagaa 420
aacaactcc actgttgaat catatttctg agttccattt taatcatata tatatttata 480
cagatatttc taatacacag actttaagta cagaaaatta agatgtcaga gcatatgtaa 540
tgatttgacc aatataaaag gttaacattt tttcagcatc ttttgttgtt ttcgaaaccc 600
ccgact                                         606

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<210> 84

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818796

<400> 84

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tgtacttgac tttagtgggt agattcttag ctgtggcatg gatacacatg atcagaacag 180
tattaaataa ggagaacgtc attgaaaaga gcaatctgtg tgcatcaaag aacattatca 240
agaaagcaaa gaagcaatgt gtataaaacg tccctaatag gtaaactctac atagataaag 300
agaagattgg tggttagaca accagagggg ggaagaatgg agagtcactg agtaattggt 360
acagtgtgtt tgaaagggga taaagataag atcgtggcct gattttaccc ataaattggt 420
gattctttac acaagaataa tggttagagg aatgagccac aatagcagat attatccaac 480
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ttctgcataa ctttgagtga tgt                                         563

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<210> 85

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818801

<400> 85

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agagtaattg cccattgctg gtttgtggaa ttgatccaat tccttgaaaa ataagcatgt 180
gtgttatcaa agcagaattt cattggacat caagtcgtgc cccagtggat ttctcccaa 240
caacaagagg cgtgaaattt ccagagccag caggagtgc ttgcccttc atttctaagg 300
gctgttcctg cagctccagt gtgacatttg cttaaagatg aagccagccc cattctaaat 360

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aaaggtatct ggacagccct tcagcgatga atgttttcct cgtgccg

407

<210> 86

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818907

<220>

<221> unsure

<222> (1) .. (582)

<223> n = a or c or g or t

<400> 86

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ctacctgggt aagtattagc cagaaacttc taaatcccag tgtgatcttc ttgtggcatt 180
tttccaacaa ataatgcaga ccaaatcaca agatggccac ctactgggtc acatgggtct 240
taggttaatg agcagagggt gacaggctgt ctctcactc ttccaagaac cgcccccaag 300
tgcacacagg cctgtcttcg tctctcactc ggcccatctt ctggtctcct tctcaccac 360
aatcttcacc tgaacagcag tcaaaaggcg cggtcggtag gccgcggaat tatcactgcg 420
catgcgacca ttaggggtccg tgcttctact gccgaaatgg agaatcccgg ttccttagca 480
gcaggctccg tatcccgcg cacttgagga accatccggg gatgcagacc gagtacggtg 540
ggctggagaa ctgggagaat ggggggcggn gggcaagact gg 582

```

<210> 87

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818910

<400> 87

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tttttttttt tttttctctt tttttacaaa aaaaagaaaa aaaaaaaaca cttttatttt 60
ccacaaggaa gagcaatagg aaaagtcaaa tcatttccca catggttttc ttaaaacaga 120
gcctacaaag acatattcag caccaaataa aagattacaa cagccataga atataatcta 180
taaagcaaac atttaattt gcactttgtt tcgcaaacat tttggatttt acttttccta 240
aatgaaaaat taggaattca agatagcttg aatactagag cgcaactgtg accctcagat 300
gttatgtcag gaattgacca atatttagaa tagtgtaatg cctcaaaaga gtaaagaaat 360
acttaatggg aaaaataaaa ctttacttca ccaactctta aaataatttt gtcaccaatg 420
ccaattatca gaatattggt cattcttctg taataaagta tttttagtaa catggtagtg 480
agcgccccga ggccatgcac accaacaatt gttccctagt cagacataac acagagtcag 540
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<210> 88

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818921

<400> 88

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 tttcaatttg tttttactct ttacacagaa aactgacact atttacacag actgtaaata 240
 gtatcttagg gagccaaatc agagtaaccg tacttgtagg aaatgaactt catacaatat 300
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<210> 89

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818947

<400> 89

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 ttaccacacc agagcacagt ttaatcttcc atacagacat tgtacatggc atttggcata 240
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 gtgatgaggc ctctactga aagctcacac tccaaggata gaaacttttc cgatagcagg 360
 ttttcagggt gcagaagcaa tgtgtcgtgt cggaactaag ggtgttctgc acacgtaca 420
 aaacagttgc atgggtgcct gaactctagt tggcaataat tatccacatg ccagaaagtt 480
 cctcacacaa gcaacagagt gccacaaaag ttgggggtctg agaaaacatg gcctgtccag 540
 gattccctga tagacactca tttttcaacc acagaatgct gtgctgacag cagccagg 598

<210> 90

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818951

<400> 90

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 gtgcacgagg agagaggcca aagctgttgg gaaagcaagt cagggacagg gccaaaagtc 180
 atctacatgg gaaccctggg cccccagcct ctgttcttgc ggtctcctga ttccaggcca 240
 gggctgggaa ttctctggaa aactttctac aggagcaaaag aacacagaga taatgctgcc 300
 cttctgtgat aaagtcagag gggtttccaat cctgcattcc tccttcaacc ctggtcctag 360
 tagggccatg aaaaatagct gggctctatt gcatgtttca gaggcattaa tttttcctgg 420
 tgtcccagcc caccagcgcc acactatggc ccagagttag cactacaagc gttgctggcc 480
 taatggatag g 491

<210> 91

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA818996

<400> 91

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 tgggtcttct ttgagtgtga ctgttcgggt gaagacaacc tgtccttgat ggctatccgg 180

atccacagag aagtacccaa ggcgctcaaa ctggaacttg tcaaaggggt ttgccaaagc 240
cacagagcag tccaccaacg ctccctttaat cacttgtagt gatgccgggt tcaagtcact 300
taggaatcca ccaggcactt cgacagggtc ttcagggttc ttgtgctgga atagtcgctc 360
atagaggcga atctcacaca ccagaggctg tgacaccag tgaataaagg ccttgggctt 420
ctctccagca tcagctcgtc tacagggtcac ctccaagcat tccacacagc cactggagcc 480
cctgacaaca tgctgcag 498

<210> 92
<211> 188
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA819021

<400> 92
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ggtggcacgt gtcaagttcc acagagtcct gccttgccgg gtgtctgaat gtacagctcg 180
gggtcact 188

<210> 93
<211> 318
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA819041

<400> 93
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tacaatttcc ttttactgaa aaaagtataa aaataatctt tatataggaa ttcattcggt 120
actgtaaatc tttctaaatc tctgcaatgg ctctaaatga gggtaagtga ataagtggaa 180
gtgaaggaga atggagggca ggaggtggag ccactccagg taccaacca cccagactcc 240
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cagggcatag ctgagaga 318

<210> 94
<211> 583
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA819055

<400> 94
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aactattcag aaaagaagat aaaagatagc acttcctttt gccttgctta taggtatgct 180
agttggtttg ggctgttggt tgattttctt ctttgaatcc ttatatgaca actgctggta 240
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ggtcctgtga tgaagtacat tgtgccttct gcaatatgtg tttatcttcc accaatgcaa 360
tgcaagtaag tagtctctta ggttctataa gacaaccctg accaacaact tacaagagta 420
tttctcttgt ccagtattac tgtattttat aggtgatcgt tgggtgttgg aggggacatt 480
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agcaggtggg ataattgatg tgaccatcaa tgcactgtgt acg 583

<210> 95

<211> 281
 <212> DNA
 <213> Rattus norvegicus

 <220>
 <223> Genbank Accession No. AA819111

 <400> 95
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 gttgaataca agagttaaac taatccacac cagctcaaaa accctgtgga gacttagttg 180
 ataagaatgg acgcccacag tgattctcaa ccaattacaa gttttcacag aacacagtaa 240
 acgaaaaggg taactatgag agtcagtaca aatatgctag a 281

<210> 96
 <211> 555
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA819140

<400> 96
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 aactcaaaaag acaccagaga cagctttttt tttttttttt ttttttttgt tttttttttt 180
 tgtttggttg ttttgctttg tttttaatag gcatgcaaag attaaagtag tgaaataaaa 240
 aataaatgac cctagattgg gcaaagaaaa ccatctttat gaagaagaaa tttaaatgct 300
 ggatcaaaaa atttaaaaga cctggcctta tgggtgtgtg tttatcggtg atttaaaacc 360
 aggcgaagtt ggtagtaggc aaatttttaa aaagtgtatg agtagcgatg gtattatttg 420
 aggtaaacat tatgtattca cttctgaaa tctacagtga tcttaacttg tgctttcaat 480
 caaatgtggt aaggtgggca catgcctcca taccacata catagcatgg acccatcact 540
 tgtcagtaac tcagc 555

<210> 97
 <211> 444
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA819172

<400> 97
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 cgatgaaact gctactgaat ttagagaggt gatgtccgcc tataagagca tttaaagagt 180
 attctgctct gctcacacgt cagtgtgca aactgtgctg caggtagcc tcagcagtcc 240
 tgacaatttg aaaaacaaca gcaatacaac aggccaccag atttgctttc ttcctaagaa 300
 actcaattat aacacattga agtaataggt gagaaggcag atcaagcatc accaggttta 360
 agagcaagaa aggaaaaggg cagaagttgc cctcaaatca ggtagacatt aaatgccaga 420
 aagaaaataa ctcaaaaaac tatt 444

<210> 98
 <211> 351
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819199

<400> 98

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acccaattcc caggtaaaaa aggaggtcaa ggcaaaaatga tgaaaaaagt aggtaggccc 120
cgaaattggg ggttcaaggc caggtcttgg ggcccttttt cggccatcta aaaaaaacat 180
ccacctaaagt ttaactgggc ttgaaccggg acaaaaactt cacttcccaa ctaaaggcca 240
cccaaggggaa aaccttgtag caagagccca ggtaaaaatga cttgggtgaa agccaccctt 300
gaggagggtt gtgaccaatg ggcaattgga acccaatcaa gggaccattt g 351

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<210> 99

<211> 621

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819306

<400> 99

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gtatgtagaa cactactgat tataaatcaa caacacaggc cccacttggg aaaacgtaga 180
aataaaaaaa agaaaagaaa aaattaagtt aaagtattag cacatataca gtgtcagaag 240
gggtctccgt caatcaccat tttgaattaa ccgttttcct ttctgaatgg cttgttttgt 300
tccacgaaaag ttggactttc agaagttgct tctaatacaca tcataagaac acagtactcc 360
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ggaggtctgag gcttattctg ttttatgtgc ttctcacaca ccgagaaatc aatcacagga 480
atacatttta catcctggat actacagtga aactcggcct aaatatcacc tactgctaac 540
acatgacaga atgttttagct attcaaatgc ttcagtaaag tgtatcttac caagagaaat 600
gtgttttgaa tcaaaacttt a 621

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<210> 100

<211> 336

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819333

<400> 100

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aaacacatct ggacctgaag caggcacctg aggtcgtagc caccocagga aaaggctgtg 180
ctcaataggg ctgcaaaatg attttggtct tggggactga aggaggacac actgatacag 240
aatcaggggt atgtgactct gagcgaccgt ctgtcacctg gaccaagcat gtcaaatggc 300
gttttagggga gtttggtcgg tgagtcaaaa gacttc 336

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<210> 101

<211> 402

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819383

<400> 101

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tttttttttt tttttttcaa gatttcaaag gacatttatt atttctgaaa ggtctgaggg 60
ggactttaca agactcggaa gccagtaact acaaaggatg ataaataaaa tacaagcca 120

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gtatgtttgtg gcaaatttcc agaaaacaca ctgaaaatct ttacagttca gaactgcttc 180
actttataca taattacaaa ttactataca gcgcttgggt tgaacccgac tttttactta 240
ataggcttag tacagaaatg ttcatacagc atttggagac aacaagaaca gaggtatagg 300
tgtatcctgc ccaccttctg tacagcctag gcctcagggg caaacctgag acgaacccgc 360
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<210> 102

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819530

<400> 102

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acgtggaatg gcctgggtgag acgaacagtt tcaatacctg gttacagagg cacaaagtca 180
tcctgatgac accggtcact gataaatccc cagggaactt gggatcggag aagaccgggg 240
tgccctgggt ccagcgtgct ggagatttcc ttcaaagtcc tgattttggc aaaagaactt 300
ggcaagctag caagcgaact gttcggccgt agagcgtgac gagggagggg ccttccacgc 360
ttgggtgggt gtagtaggcgc ccaacgcagg gaacaatgct ctctctcat ctgtctgcac 420
gcctaccctt ccactacac ttctaggctg cagagagcta gcccggggtc tgtagaggca 480
ccttcccaa gcgggtccga cctaactaac ctcaccaaac tcctccca 529
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<210> 103

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819672

<220>

<221> unsure

<222> (1)..(485)

<223> n = a or c or g or t

<400> 103

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aagcacaaat caaaccaaca gaaagatagt tttttttaa aaattatctc cttaggcttc 180
tgtctttaac ttccccttgt tcctatttct atgagagaga ccgtaacgca caggctgagg 240
agacacactg ccaacaaggc taatgtgcac cagaccgaag agggacagct cggctttggc 300
cagccctctt cctgcaggat accaatccta tgtttgcgtc aatcctgacc tgctcagatg 360
aagcggcact caggcactag tcagccgttg accatacaag aacagagaac actggagtag 420
acagagcttt ctccaggaat gctgacaggc gtcnctccct tttgagaagt cctttgcttt 480
cctga 485
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<210> 104

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819709

<220>

<221> unsure
 <222> (1)..(597)
 <223> n = a or c or g or t

<400> 104
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 atactgagta gtgaggtcac agtcacgaag acatgggttc acattatgga ttcaatagac 180
 tcaagttctg aatgcagtat taagtgacta caactgaaat gctaagtgcc acgtttgaaa 240
 ttgccagtct aattgagggg cgaagtgtat aatcagagaa agatttggca gcatgactca 300
 ggaggacagc acaggaaga gaggggtactt aagagcagta aagggaaga gagtcaatca 360
 actcgggtgca gttgcgttca gtcgagtcag tgcagtcagt accgttcagt tctggagttc 420
 agagcagact ttccaagcca agagaggcct gtttcaatca gtcagtttgg agacgggttt 480
 gaaccagaag agctgagttg aaccagccag ccagagttta gcaagaacta cacagggtga 540
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<210> 105
 <211> 478
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA819744

<400> 105
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 cttacacca catcagctct gaaaggggtga acgcatctga gccagaagcc cagtctctcc 180
 aggccatgca atctgttcac tgatgggaca gtccctcaaa acagccacac aaagtagaca 240
 gatacagtct ccccgaaatgt tcccgatccc cctgaaaaca gagtgaagtg caatgaaaac 300
 tggttaattaa aaagccactt gggactggca gtaacattta atgattgaga aaatgcttaa 360
 aataatttta tgtatcagag acaaactgct tgctactctt tcattgatct taggaatttc 420
 ccagacacaa aaatctccat tatccagctc cattaaaatg agaagaaaaa atgtgcta 478

<210> 106
 <211> 463
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA819767

<400> 106
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 aatacatgga gaactacact ctgcctccct agacgcaaat ctggaacca gtcctctaac 180
 ccaattcaaa cctttgtcac cagacacaga cacggttggg cagttgctta aaccgttacg 240
 ttacacgtag ctctttatga ctgtactgtg gaataaaaaa gctgaaaata ctgttgctga 300
 tttcatatag aagtctttta tataaaaaaa ggcgtataat acatccacct agataaacca 360
 actgaaaata tttcttgtaa gtttaaattg tttgagagtt ccactcttct attgttaatc 420
 gggaaattat cagcctgggg gtgccaagct gctgctgac aaa 463

<210> 107
 <211> 615
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA819812

<400> 107

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tcttagtgta tacatactca catcaaaata taaagaacac atgaacgtat accagagtca 180
gaggcgtgcg cttcgctaca ccttgccatc gatcttggtta agacagatac actccattgg 240
aaaaacccat caataatgat tttaaccaa ctaacttcct gtgatctgta gtaaccatta 300
tgatgtctgt atgaggtagt aactaaatta ttttgcccat gtattaatac tctaaataaa 360
aagaaatatg gaagtcataa taaaataagg ccaacagaag taaaagtcca tgaaaaacgc 420
gaccatgtca ctgtggaatg tgacggctct tcagtgtgac tgaaatgtct agtgtggagt 480
cctcagcagt gccagtctct cctgtgcaca ctgtcgcctt ggcgacagct gcagtgttct 540
accacggtac cgccattctg tgatttacgt tttgcaaagg tgtgtcctaa gcacagacaa 600
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<210> 108

<211> 593

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819816

<400> 108

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tctcgttaca gtacactctg aaatattttac agtatgatag acttaaagca gagaggaaat 180
cacagcaaag gtaagccttc tagatccact tgtgggtcat taagagtata tgcacaacca 240
cacgggagag acaaccagcc tctcccttca tatatattcc tttttatttt cttatttttac 300
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ccactgtgga gccttttagtg gtgaggtctt ccgatctcag tgatgtcttc aacatacacc 480
atcatttttag tggaaaaaca attgatttgg tgaaatgaga ttcattttcca gacagggttag 540
taactgcatt cactgaattt cacactcttc tttgtgaact gtgaagaaaa tga 593

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<210> 109

<211> 254

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819840

<400> 109

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aaagtacttt gaaaggtgat ggataaagag actcgggggt gctcaggaca ttgagaataa 180
gtgacggcca tgtactcagc cctaaggaag atgttcaagc tacctgccct ctctaagcat 240
cagagaacaa ttca 254

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<210> 110

<211> 413

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819853

<400> 110
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 cagacatcat gattcacaca ttcgacccgt cagtagatcc tccaggaatg cagttggctg 180
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 cagctcgtg taccacaaag acccggtacc gatgggatcc acaacagggg tcacgggtctc 360
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<210> 111

<211> 447

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819854

<400> 111
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 atatatattt tcttacaata atgggagatt taaaaaatat acatactgca ctgtctctat 180
 tttacaaatt tcacatgcac ttaagagata aaacatataa gatgccaac ctgtgtagt 240
 gcagctcaaa aaaaaaaaaa aaacctgaca ggtgagatca ctttgaaagt ttttaagaaat 300
 acaagatcac ttttaactata agagcagtc cagtcaactg atcgtgacat atagaaagta 360
 atttgacttc ctgacagtac cccctgggtt ggcattttaa aactgctctg agaaactgaa 420
 gagcttttgca aaatcggagg acagtca 447

<210> 112

<211> 520

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA819879

<400> 112
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 tctttaatag ttcctgaaag ccattccatg aagtggatcg ctgacaggga agtgcattgt 120
 gtgcccaggg gaaggtgtcc aacctgggtg atagtcagca ctgagtaggg cctacaagag 180
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 aacagtgtaa acgctgggat aagagtatca gatggtcaat gggccgaaat cagtgggaatt 420
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<210> 113

<211> 586

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA848378

<400> 113
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 gactttggga tgtttctgt ggtatgtgtg ggtatgtgtg tacatatata tacatacttt 180


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actaatgtta cctcagccag ggtacatgcc acctgtacat agcacactct acataaagta 180
taaaatggca tatatctgaa aatactctat ttgcttgggt gaattattgt agttataaaa 240
tagtttttaa tctgacttgt gtaggaaaag acacacgcca tgttttttta agtctgtggg 300
agaataatgt ctataaaatc tattgagaat cccaatctgg tcaaagatgt gtcattgggc 360
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gaaggagctg ggggaggccc tagttagggt tccccagaga ccgttagtgg tcagacctga 480
aggaagaaga gaggcaggat ttgaagggtc aaatcccagt ggatctggga ggcgggttagg 540
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<210> 120

<211> 401

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA849222

<400> 120

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accctgctga ttgacccttc tgggcctgct tacggactcc tctcaaaggg acagccagcc 180
cctgttcctg ggaggaggct cctcggacac tggacagagc tgagcttggg acaccagaga 240
gaacagggca ccttctgca ctggcttcca gaaaacgggc ctccccgagg acaccagtg 300
gatgagagcg agtctgagag aagaatgaat tgacctctat ccttccctc accctcgacc 360
caggaggggaa agggcatttt ctttttcacc tttgaaaggc g 401

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<210> 121

<211> 268

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA849365

<400> 121

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aatatacaaa agtgggtccat tcttcagacc gtgaaaatgg caagtcccgg ccagatctag 60
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ctggatcttg atccctgagg gaggcttgag gttctgaaca tggatggcag atcacaacca 180
cagttctggg ctcatctgga ccaccagtcc ttgggcctca aaagttgaac tcctggaccc 240
tcaagtccca acgactttcc ctttgggt 268

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<210> 122

<211> 395

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA849426

<400> 122

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ggcagtgccc agcacacttc tttattgaat gcaaagggtat gaacgtgtaa ttacaagaca 60
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atgctaaagg cctgctgctc atccagttgt cggccctgct tttaacaggg tctgttgtcc 180
atggcaaagc agctgccttt ttgtctgcac tggacagcag cagcagcagc agagtctgca 240
gtgctctctt cccagtcctg gaggtgtggt gtccctgtcc ctgcccacat cctgcctctg 300
cttggctgag cctgaaggag ggcacgacac cagttagccc ggcccaagcc tcactactg 360
cagcccagac ttcactctgc agtaactact gtacg 395

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<210> 123
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA849497

<220>
 <221> unsure
 <222> (1)..(535)
 <223> n = a or c or g or t

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 gttaactccc ttggttctag gaccagcata tcttaatctt tcaacgaagc agatgatatg 180
 gaagtcctct ggagactgaa gccacttgcc tagtctcttg agcaaatgaa cagacactgc 240
 tatcatttga caaggaattc agactcagaa cagagacaac aaagtatttt aaaaaataat 300
 tattcataga cttgctaact gtcacttata aaggctagt caggccana gtaagaactg 360
 gtgctttctg agaaagctga aaaaggatta gaggtgccgc ctgcttctag gtacgccctc 420
 acttacactc tgcatagcta actctgggta aggacatggg gttcaagtct ctgttctggg 480
 cttggagatc tctgtagcct aagagagtat cagtgcattg ttgacctgag ccctg 535

<210> 124
 <211> 501
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA849767

<400> 124
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 cacaccagac acaagcaagg acccagggc actgagcagg atgggatggg taggacggca 180
 agtctctggc agccgatgac aaccgcgcct tctcaggaca ctggattagg aaccaagaaa 240
 ccaagcagta tcgttggatc cttccagaat atctaattct cacatttgcc gaggggctag 300
 cctcaaacc accgtgtagc tgagattcca ggcattgtct accatgccga gctttaccgt 360
 ttgcctctga aaaccgggac agtaaccttt actttctaga gctgcctgaa ggggaaatgc 420
 cacagagagc aacacttacc aaagtactca acagagctgg cacacagagg tatctaatta 480
 gtaactcttt tttgtttttg t 501

<210> 125
 <211> 582
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA849796

<400> 125
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 aaacatttaa gaactagtaa tactaggata taacctcagt attacattgt aaatggggaa 120
 tcaaagtgca gagttaggat gccaggctg aggcgtgccc tccgacttaa ctgctaaatc 180
 atgtggggag tgatctttga tactttaagt caacttcaat acagaactat cctttgggta 240
 ctccatacag ttaggggaact tgttttctac acttaggcat gacccttcaa ttaaaatgga 300
 agattcttat tatgaatcaa gagactcatc tacacgggtg gaggatccac ttcattccatg 360

ctctgattta gtctttctga atggactggg ttctaaccta gactaagtac aggcctgaaa 420
 cttcaacagc catcaggaac catggagcgg gccatgaagg tgcttcgaag ggccacagac 480
 tttttcaacc tgggacagac tgcaaacctc gtgccacacc ccatatgaca aaaagctgga 540
 aaacaagggtg tgtgttttca cttatgtatc accagatgca ac 582

<210> 126

<211> 196

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849898

<400> 126

aaacaggcaa aagtgatttg atttattttg agccagggtt tcagagttca aagcccccca 60
 accacatgta cccaagcagg acaccaaagc gaaaggaaca aaggggaaaa accctcccc 120
 atttctggac acacggaaac caaaggagga gcctggggac aaaaccatt cgggggacaa 180
 ggaggagcgc ccccc 196

<210> 127

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA849917

<400> 127

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 aagagttaac agatggaaaa ggtctctggg gcagtccatt tgctgagacc tcaagtggga 180
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 cccaatccct caggctctgc ttcttgatg cccaactctc aacagggctg ccaaccacta 360
 agacagacac agctgctatg tcccacctct cctcagcagt taaaaaggaa gagactaacg 420
 gggagcctcg gaggtttact tactggtcac agttcgtat gatgccatca tcagtgtaaa 480
 caatgttgct ttagctgtgt aaga 504

<210> 128

<211> 513

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA850038

<400> 128

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 agaaagggtg cacttaaaaa aaaaaaacct tcagtttttt taaaaacaca aagtgtaaac 120
 tctaagatag tgaatcaatc acgtcaccta taagtgccaa cagtgttatt ttgtcatgct 180
 gatttcaatg gtacttttta aaaaggggga aatatcaaca attataatac aaagggcttg 240
 catctataca aacagatata ggattcataa caattcaaga actaaggggg ggggaccaa 300
 ttcaaattac aaaagttcac tttttattca aaacctcagc ttgtgtcttg gacacgttcc 360
 ttggctgcc aataatgcc cagttccttc tcttaaaata ttttttttaa aaagctaggt 420
 ttgtcatggt atgggggtgg ggtggggaag ctaagtgttg atgtgatccc tccagcttgc 480
 taattagagt gctcaacttc tcctaaaaaa aaa 513

<210> 129

<211> 419
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA850195

<400> 129
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 ctgaccaagg agtaactcta ttgcctttca aaaagccctt ggaagggtac cctcaatcca 180
 aaagaccatt agctctcctg ttacagtttg tgtacaacac cctcatttga aagtgcgcg 240
 tctatcttaa cgaaaacatc ccagaatgtc catagatgtg agtgtatcat aaattatata 300
 tacgttttag aaatggaata aagtaccaat ctcagtttaa atactaaaat agaaataaaa 360
 aacaaaaaaa caggctttaa cgttattact tgggatgtct cgttacaccc ttcctaggt 419

<210> 130
 <211> 492
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA850378

<400> 130
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 ttatattaaa actgtggggg aaacgaatat ctcggtgaagc gctacatttc cagtcgatcg 180
 cacctggcac ggaaagcgtc attgcatctt aggtcctgct tgggtattata agagactaat 240
 ttgaagtccct aggattcaaa ataaacatca tttggaataa tagatatata catcaaaaat 300
 acatctagaa aggcattgggt tagtgctatt aaaaagctgt gtgctcatgg ggaaggtcag 360
 tcgaaagtta cctggtcata ttcttactcc tcatctccac tgtccatgtc aatgtctact 420
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 cggacttggt gg 492

<210> 131
 <211> 617
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA850480

<400> 131
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 aaaaaatata ttgcaagtta gatctaaaaa aggaaatcta aattgcctca tagagaaagc 180
 cagtgcgtga gcaaaatatg tgactcaaaa ctaaaagaaa cccaaccaag aaatagattc 240
 caaaaagtc agttaatcct ccaattttta ataaatgatc tcccaaggga aaataattcc 300
 actaccacag caatttggtc aataaaagca gagccacact cttaaaggga aattctacca 360
 tatgtaagaa aaattaataa atctttttaga aaatagaaat ctccatgttg gaaaacaagc 420
 aactaaata cttcatgttc actctgttag agtttcgaac ttctgtccac atatgcaagt 480
 gacatgaata tgaatgcaca taaaaacaag ctctttgact attagttcag ttgagcctca 540
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<210> 132
 <211> 531

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA850618

<400> 132
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ccatcaacta tctttatcaa ataaaaatatt tacaccattt ggtttctaat gagaaaagct 120
cttcacgcta tcaccatggg gacatcgtct gagaatccgg taatcatggg agcatcttcg 180
tcgtcctctc ctagggtcatc cccggaggag aagatggcgg agcccagcct ggagctgtag 240
tggtgtttgg caaaggcagt gaagctgctc tgtaagcggc ggtgcttcgt gtagaggacg 300
gcaaagccga ctcccaggct cagcaggatc aggaacaaga taggaaccac cacggccgcg 360
acgtcagtag acctggcagt ctggaccact gtggcatctc cacctgagct cagttcgtca 420
tacagcagca cggcaggctc cccgcagatc tggctacca agagacatcg agcctggacc 480
gtgaaagtgt aattgtgacc catcttcagg ttggacactt taaagaaatt g 531

<210> 133
<211> 580
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA850738

<400> 133
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gcttctctga ttaaacaataa tacatttcat agaaatgatt ataaaatgca tcgcagatag 120
aatgttttat acttacagat cttatggtac cctaaatcat tattaataaa aaccagccaa 180
cccatactgt aagtaaagtt agcagaccac cacttacgct ttattgtagg agaaagacat 240
ccaattacca tgctgaaatg ggttttagag tccaacacag acatcctgct tcaaagctcc 300
cactgcactt acaaccccag gaacggggct ttccttccca tattacattt ctaggacagc 360
tttgggctga aagattagtt ttggtttcag agcgaatctg atttagtatt tcaatgtcac 420
acctcaaaga ttcctgacgg gaggttgggg agaactcact caattacgta ctagtacag 480
gcgcaagaca gcacaacaca gatgggacat ttaattcact ttaccggaca tgctcaccca 540
accgaaattg ggaaaattta aaggcacaga tgaatagaaa 580

<210> 134
<211> 438
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA851050

<400> 134
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tttttttctg tgcagcccag ggtaagctca aacaactcaa aatcctccag ctacagcctc 120
atgagcgctg cagttctggg catgcgtggc ctctcccggc ctagcttgct agttttatat 180
gatggtaagt ctccatctat aaatatgcaa gtgtacagaa tacatgtgtg cttttcgacc 240
tggtgtttct gtatgggaaa gctgccccga gaggatgcta cctctgttct tctgtcttta 300
gtgatgttta aatggtttgc attattttca tgaaatgaag tgcgttaagg ttaggagact 360
gaggctggta aaggagaagt ttcttgga tgactgtgtg caagagggaa ggccacccaa 420
gggcccttcc ttctgagt 438

<210> 135
<211> 494
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851233

<400> 135

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gcaacgaaga cggtaggtac tcggggatcc agctgaggag agatgggtca ctgcagctgt 180
actctgtaag cacctattag caacttcacc ttggcaaaagg gtgcttccgt caaccttata 240
aacaacttat tggggccagc aacagggctg aatgaataaa caaagtgact gtccagaaaa 300
acaggtagct ggaatttatc atttagcacc acggcttgca cactgcatgg tccacaaagc 360
cgagcaatga catctttacc caagaagttt gcatggaaaa tgaagaggag gacaccagat 420
ccttcaggca tgttctgagg gggcatgtaa ttgaaatctg ttgagaaatc gggccactca 480
cagagccgat gaca                                     494
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<210> 136

<211> 719

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851329

<400> 136

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aaatactgaa aagattgatc ctaccgtaa ggaatgagtc agggtaaagg aaaggcatgc 180
agggcactaa ttgatattag caaattttgt tcaactcact agtcagcagg tcttaaactc 240
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gacccactga cctagacctg cctctgtaga ccaggggctt cttaaatcag agctctatct 420
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aatcatacta ctatgttgct taattccatt tcctgaagggt gtgttggtat ggacaacatt 540
ctgtaaataa actatccaat aaattacaga ctctgcttat tctgaaagggt tatggtttca 600
ggagaacatt cacgggtgatg gaatctcatc aacttgcggt ttcacattca gttcttttga 660
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<210> 137

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA851343

<400> 137

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ctcaggtgac agcacatcag gagctcacgg gcgcgctcac acgggcacgc tcacacaggg 300
cctgtgcagc acaagattat ggagtcacat cctttgatcc taagctggcc tggtcctctc 360
atcagcctca gggaggtata ggaagatgaa tataggccca gctttctgag cttagctcaa 420
ccacagcttc tggctaagct ctggaccacc aggggctgga gccttgacc aggatggga 480
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<210> 138
 <211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA851803

<400> 138
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 gaataacatc tgaaagacag aataataaat atagcagtgc gctcaccact actgccacta 180
 ggcttggtga cacgcattct gtatggacta ctctgtggat gttcacactc tccgcctgag 240
 aacacagagc atattacact ccagtgtaca agacttcagt ctgacagcat tgctctacaa 300
 gaaagaaaat taaaatgtct acttgacact gcaggggaagc atggggcacac gcgcacacag 360
 acacgtgtct gcattttctc tcacactcaa acagaagcac acgcacacca cagaagtcag 420
 aagaatttac ccttggtgtgc cagacaatta acaatttcag aaatgcagag tgagtggaga 480
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 cgctc 545

<210> 139
 <211> 294
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA851814

<400> 139
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 cacaatgaag tccatcagtg agttgtcagg ctgcagtgtg gggattggga catctgctac 180
 ctggatgatg ttgacttcta ggattccatc tacaattgtg atggtggctc tgaagtaacc 240
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<210> 140
 <211> 591
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA851953

<400> 140
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 acagaatgga ggggtgaactg cgaaggctct gcatgctcta ctggcttcca aaggcattca 180
 gagggatcat aaaaatgttg gacactttgt tctcagacct taattcagat gctgcctcag 240
 cagattggct tttgggttta gatgctttag cctggaggcc agaggagaaa atatcatctg 300
 tatcatcgct aaacatggac ttggctgtga ctttcttttt gggcttttct ttgggtttca 360
 cagtcaagtc agcgaagata tcaatattat catcaaataa gttgggttcc aaagtctctc 420
 ctttctctct ttttttttga aaaggcttct taattgcttc cgtagcaaata atatcatcct 480
 caaagatgtc ttgagttttt gacacaacgt cctgatggct gtcagatttc cactgattct 540
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<210> 141
 <211> 538
 <212> DNA

0597500-07101

<210> 147
<211> 453

<212> DNA
 <213> *Rattus norvegicus*

 <220>
 <223> Genbank Accession No. AA858448

 <400> 147
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 cagtttaacg tggaatgtca aacacattag tttctcattg tacaaaaact cttttctgta 180
 gctgacgcgc aagagggaaa cacatgataa ctgcacattt caatcatctg tgatgagttt 240
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 caaataaatt agttacatgt gactgttga aacctccctc gccccttagt gtttcaaaca 360
 aagtcttagt gcaaacatcc aagttgctcg tcaatctaaa agactgttaa actcagaata 420
 caagttctga gttatgtgta gttaagtagg aca 453

 <210> 148
 <211> 522
 <212> DNA
 <213> *Rattus norvegicus*

 <220>
 <223> Genbank Accession No. AA858548

 <400> 148
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 ggttggtctg actacgccc gccactgagc tgcccaacc agccagggat ctatgaggct 180
 gacttctgtt ttcattgatgt caccatatgt agtatgtatt ttgtctcaat aaagcatttg 240
 taccgatggc tctggagctt ggaggaagac taaaggaatg tgtagtgatt ctgagtaagg 300
 tgtggacctt cacggcagaa ctatctgggg gagggaaaaa caaaggcctt tcttcccgtg 360
 tcaggacagt cttgagtggc tgaactaagc acatggggcca ctggggctac actgtctgaa 420
 ctccgacagg tcctgctcct ctaggagag cttgcagttg ggagttttag cagataagca 480
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 <210> 149
 <211> 454
 <212> DNA
 <213> *Rattus norvegicus*

 <220>
 <223> Genbank Accession No. AA858573

 <400> 149
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 aatctccagg atgtcactca aagccagaat tgactcttgc tctgcgttgg aggttcagga 180
 accttctatg ggcaggagga tgtcccctcc tcgtgatctc tttgggttca tcataaagaa 240
 agccaagtag ataatcattt cttcgtcggg gggatcttgc catgtcccca aaaatcatca 300
 cagagtagcc cctttggaag gcgcagggtg agggatcacc agactctctt aggcattgag 360
 tttcctgaac ggtgaactct aagttcatga ccagtgtgtc ttcattccagg acattaactc 420
 tcttcaggga gctccgcgtc gcccgaaaca ggta 454

 <210> 150
 <211> 472
 <212> DNA
 <213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AA858588

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ctatgatccc caaaagtgtg cttgtgattt cagcaactta caaaggggag aggaaatact 180
gagaaaggcc actatttaat aatgaaggag tgaagggtgc tctaaactgg gctccaaatc 240
tccgtggtgg ttgtcattgt tacctcccc tgtatcatca agttggtgcc cttttctgag 300
ccttataatct ggctctggag tccgtgtgca ccccaatcgg tgttcggttg gctcgttcat 360
gggataccaa agccttcctt acaaagtggg ctttctttct gtcccttctt cttggggagaa 420
tgattttcta agggatgggt agttgacct ccttccgacc caggcaatct gt 472

<210> 151
<211> 354
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858704

<400> 151
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actgtacaca acctagtcgt gggacacata agccagtgag gtgaatggag cagtctggcg 180
cggccccagg agccaggatt ccagccgagt tttgtcactg tgttcattca agctgttttt 240
ttccttttct tttttaaaat cttttttggt ttttttagat ttagtttttt ttcatttttt 300
gataacttggc acagtctggc tccaccgatg ggcagtagca gatccctcgt gccg 354

<210> 152
<211> 526
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858716

<400> 152
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cagaattcgt ttcagtctgg tcccaggaac tgcttctcat gttaggattc acgtttcagt 180
aacacgtatg cgcccatcac agccaaaaga gcgtacttga acttaggata gtcgttcatt 240
ataatggtga ccatgccaac atatggtaag aacctcagag ctcttcctac cagtccttc 300
ttctccagcc agttctggcc ttctttgtac aagcctcgat catcaacttc attagtatct 360
ccttttagtca gaaacttgat gtctccatta tctttttcat gaaccttgat tactctgtga 420
actatcgga tgtctcttcc ttcaacttta aaaacaacta tttcaccagc tctgatggga 480
tctcccgga aatttgtgag gaacagcaga tctccctgt gaaagg 526

<210> 153
<211> 539
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858758

<220>
<221> unsure

<222> (1)..(539)
<223> n = a or c or g or t

<400> 153
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 aataatagaa attggaccag ttcttaagtt tcttcttcca tgtttcttgg aaaacagtgt 180
 gtagtcaatt cttcttcac cgtggcttca ctgtggcacc ccatttccag tgattgatct 240
 tctctccaaa caggtagagg ctggcactca ggatgtaact ggctgagaag aagagaataa 300
 taccagcg gctgagggag gcaaacacgg ggtacacca gtttccggtc tgaacgtagc 360
 gccaaaggat cctgataatg taagcaaaat tacaggcacc cagcangctg agtcctagct 420
 tcttcgatgg atagtgtgt ggtctgagaa cggtttcagc cagggaaaag ggaaatatgg 480
 aggtatgcat tgcgtgatta aaccatgctg gaaagaaatc atccaagccc ttgggggtaa 539

<210> 154
 <211> 554
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA858760

<220>
 <221> unsure
 <222> (1)..(554)
 <223> n = a or c or g or t

<400> 154
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 acctgtgcac ggtgatgccg gggtattcgg cctggagaga aggggtattt attttttttt 180
 tttaaaaagg aggcataat ttttacaact ttgtttctta aaataaaatt agcagctctt 240
 ccaaaaatat tttaaaatat aacaaaagag ttccaataac tctgagggtta tgggaaactc 300
 aaatccatgg acaatttggg tagctcaaca gaatatgggt ggcaggaact gctctattat 360
 cagcactttg aagatcagca natttgaaaa tottaaaata ccctttcaat tttttaaact 420
 taagaataag tttgataaac ataaaaagac ctcaaataga tcaacagata aatgcaaaaa 480
 ccaaaaatcc aaattcatgg agaagattca tcagagtatc attgctaaag ttattgaatg 540
 actgaaaatc cctt 554

<210> 155
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA858852

<400> 155
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 gcttctcttc totacctccc tctccctcct tcccttcaaa ctgcaagcat caggcaagta 120
 gaaatccagg caggttatga acaggactgg aactgcccct cctgacatct ccagggaagg 180
 cttaatgccc cctccattat ctgtgtcctc tgtgaaatct gtcagttagg atcttgact 240
 tctgtgttac ttcataatc ctggcagcca ggcttatccc agagttgttg ctgctccaac 300
 agttcggctc tccctcctgc ttccttgctg ctcccatagc ttcagcagag gtgtctgcaa 360
 tctccatgac tgctttcaac aatt 384

<210> 156
 <211> 467

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858910

<400> 156
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 tcaagacata catctgaaaa agccaccccc cattagaagg aatcactgcc aaatacttct 180
 ctgtacacac acttcaatga cacagtggct tccccagaa cacagcattc acattaccga 240
 aagcagcaaa attcacttta aaaaacaaac aaacaaacaa aaaacaagaa acaaacgaca 300
 acaacaaaac caacaacaga aaaaacgaaa cagaaaccag aagtgagaat cacaaaaata 360
 aataagtcag cacattctgg gtctgtctgg cctgagaaac agacatatcc atcatagtct 420
 ggttatcagg aacagcttca aggctcaggt ctctgaggtc cccttga 467

<210> 157
<211> 507
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858926

<400> 157
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 ttgagcagga gccctgcccg gcgttggttg ggtctctct cctgtggaga agctccaact 180
 tcagaagagt gtttgagcca tacagagatg atagggggaa atctccttgg tgatagaaaa 240
 taaccaaagc tcggaaccac ccgaagggcg ttcacagttg ggatgtggga gattcatggc 300
 actgccattg cattctgaag caaacagcct taaaactctg cagtgactgc taaactccac 360
 cttctggctg gagagaggtt tgcttagcat cctaaaagca atgcaaaaaa gctctttctc 420
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 ccctggcgct acgtactggg ggacact 507

<210> 158
<211> 511
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA858953

<400> 158
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 cctgctgagt gtgcgagcag cgcagacggc acccacggaa aaggcagga tgacttagct 180
 gtctacgggtg gctaagtga aagtcttttg gaacagattt actttttgtt actcaggaat 240
 tacatcaaag aggaaagccc taactgcccc ccgttcttaa actaaaggct aaggggggtg 300
 gaatcatttg ataaccacc atccaaatca cgttcattgc aaactgtaat ccaattcccc 360
 ttcattaagt tttccctgtc aaccataacc cctcaggatt atacacactg tatgagttca 420
 gaaaagatta atgtgaatgt aaggggtatg tattcgactc cagcatcttt gtcacatagc 480
 caatttcttt taaatgtctg ctataacaga t 511

<210> 159
<211> 353
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859085

<400> 159

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tttttttttt tttttatcaa atactcttta attttattaa ctcttgaaa atattccaag 60
gaaataattg aaaatacaga aatattttgt tagtacaaag acattacctc aactgtcctc 120
ttagtgaaaa ctgaatatgg tctgcgtgat ctattagggc aatagtaaaa ataaatgtct 180
gtgttacata agagctttgc ataaaaatcc ctgtattgtg tgtaatgtat gatatcgtgt 240
acgcgatgtg tgatataaaa gtttagcaaaa tgaaaaataa aacagccttt gtggattagg 300
cagaaaaata tcaaaccgga tgccctttcc ttatttcagt gacacgtggg aag 353

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<210> 160

<211> 376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859130

<400> 160

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tgtacaacag agagcgggtg caagcggcta ggggtcacag agccgccaat aaaaaagaat 120
gtccttaaat aaagtgttca cagagtaaaa atcagaacta ccagtccttc cctccaacac 180
aacagagcac aggacagaa cccgatagtcg atgagcccaa ggagtaagga ggaggctgga 240
gaggacagca gaggctaaaa gaaaaggaca aaactcagtc tcgggtccaa ggggtcagaa 300
cagtcctaagt gggcagggtc cggttgactg ctagtcccgc ttggccttct tcttgtcact 360
gttgccattc tcttca 376

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<210> 161

<211> 581

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859150

<400> 161

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taattttaag ttttagtata gactaaagca tccaaaatac tgtggtacgt atgtagctac 180
gaacatacaa acacgttgat gcacagcgtc cgttctattt aaataggcag tcagcatttc 240
aattcataaa agaacacatg aggaggctgt atcattaccg atggcagaaa acgcaagacc 300
agcgtgtctg acacaaaatg tgtgagacag atgtgtcaag gtggaatgta caaaatcttc 360
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tcaggaatga taagaaagaa cgttagcaag ggacgcttcg ttgatagcca aacgccccat 480
gttgtaaaagc aaaagcattg aggttaaagc tgtgttgctt ttgaaaagta atggaagtgc 540
cgtacattca ttggaacaag atagctgatt attagtctct t 581

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<210> 162

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859230

<400> 162

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ccaattctta acacacgtac ccaaactctg aagagccgta gtgttcattgt accctaattc 180
tgaagagcct taatagtgtt cacgtaccca aacgaagagc tacatattgt ttttctgtga 240
actttattcca gtgatgtctc agcctcaaac ttggccagtt tccttacgac ctctcataac 300
aacggaatgc tcacaatgct cagttccacc aattcacaaat tttatgtcac acacagaaca 360
tactcaaaat caccatcttt cacagcacat tatcacaaact gttaggaaaa tggactgcc 420
tgaccacaga catcacagtt ctgacagggc gaggaccaa gactggcttt cttacaaaat 480
ggttctacta gaaacacggg accagatata actgaaaata ttccagacac gaatgcata 540
ctgagacccc aaattgccat ttagtatgct ttgtactgta ggatataaaa ctagccccct 600
ctacgg                                     606

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<210> 163

<211> 550

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859241

<400> 163

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agttcaagag gcaaactctg acacactggg atcagtggc ttgaaacagg atcactgatg 120
cattggatgat gataattcct agcaaagtgt attgattttt acttgatttc caagtagctc 180
tcaggcatct aacctgtgaa acagtgactg tttacatata gggatgcaag gggacataag 240
aatcagagca gaaaggaaac aacataaggt acttcacgaa aataatgttc caagaactga 300
aaagcctcga aggtgtacaa gaatccagta ataacaaact catgttcaag caggattaga 360
aacacagcgt taaaactgga ctcagtgcg tgtcttcacg tgcaaacctg ccaacactga 420
agaggatcat cccatttttc tgtgactagt caatacatta cgaagttctt ttgcaaata 480
ctctgtctgac aagtaacaaa actgcactga aagcctttac tagtcctctt cccctccctt 540
tctccgtgt                                     550

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<210> 164

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859327

<400> 164

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acagcagaca ccggcaagtg tccgtccctc tgcccactgt tcatgtgcac acagaacatg 180
aatgcgattt gaaatctggt cacgggtgata aagttacaat ccgccagcca cctctgcagc 240
ctgacgtcta cccacatgtc tgacccgcga tgtctatgtc agcagtttcc ctcttgcaat 300
catttaaaat tcgtttcctg ttaggaacca gcaacatatt tttttttata tttatctcct 360
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taaagggtaa aggaagaaag tgtgatgaat taaaaaaatt atttttttta ggaaagataa 480
aattcatttt cacaaattta caagagctgc tgggtgcggga cttattccac tacgcatcaa 540
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<210> 165

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

0007-1226

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aagacagatc	atttttacag	accaaaagagt	cccaccaaag	tgataaagga	cacccgaaa	180
ggggcaggtc	aagggggctg	ggtccctccc	ccggtgacac	tgtgttggtt	gtgatgagac	240
ttataaaaaa	caaccacta	ttagaactat	gagaaacacg	gagatagttt	agcaccacc	300
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ccgtttctct	gctgaggtgg	ggagggggaga	agctggggga	aggactcctg	ctgaccacgg	420
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<213> Rattus norvegicus

<223> Genbank Accession No. AA859342

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tcttggcatg	agttttggcc	taaaatat	tttcaaaata	aagtctaata	agctgatccg	180
cgagtaagcc	gctaagcata	tccacaggtg	agtcaatcac	cctgagcaat	taattgcaaa	240
gggttcttg	gcaca					255

<213> Rattus norvegicus

<223> Genbank Accession No. AA859348

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aggagctggg	tcagattttg	acagagggtg	tgggaagggg	aaggggagaa	gaaatcgaca	180
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gacagtggct	cctaagaaat	ctgcattgta	ggagaagaca	atgaaagacc	ctggccctgt	480
ctctcaaaac	ttaactctct	gtatgattta	aaaaaaaaat	ccatttactt	tactttgtgg	540
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<213> Rattus norvegicus

<223> Genbank Accession No. AA859350

57

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cacacacaca ctctctctct ctctctctct ctctctctct ctctctctct ctctcacaga 180
tacatacctc acaagctctt gccagggtcag cctttcatct aagcaccatt ctcccacttg 240
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aaccatgaa cagtagacct ctctgttctg tctcttgtct ttccattccc attaccact 360
aaggaaatgc aggaagcttg ggctcagtag ccttcaaaaa acacaaaaac aacgacaaaa 420
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<210> 169

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859362

<400> 169

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ttgtagctga agttagatgt ttcagtaacg aaatgaaggt tatctcatca aaatgggtggc 180
acatctcaaa gacgggttct ttgttcctgt aactctctgc ctatccctca aaacctaaaa 240
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cgaaggggag gggccgggag aaggacaagg aattggggca gaggagacct tcacttccac 360
tttctcagca ggaggaggtg gtttctgaga aacaggctta gagtcggcct ccctgcggtat 420
cacttgaatg gggatgtgtc caggaggag atctgggtcca gctaggcctg gcttgctttc 480
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gtcaaccact gtgtgcacac g 561

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<210> 170

<211> 548

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859536

<400> 170

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tattttccat tttccaatgg gtgggtgtgt ggtgtctgag acacagggtg aagaaactgg 180
agctgcaatg aaggcagact tttttatttt tcatttccac tgaccaataa acagaactac 240
aggtgcaccc aaccacggac atgcattaac tcgtcatgag aaatctaggt aggctaagta 300
tgatgagaga atgtttgtca ctcccaaaaa tatctggaga ggaagaatgt aggggttgga 360
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acgttaaaaa aatacaaaaa taagaaaagg ctgtaaaata ataaggaaac acagaaaata 480
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cctcccca 548

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<210> 171

<211> 533

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859585

<220>
 <221> unsure
 <222> (1) .. (533)
 <223> n = a or c or g or t

<400> 171
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 aggggctggg tagaagagtc ctggagtttc ccataatcct tgcaggaaa cagcaatgct 180
 ggcagataag gaggtggagt gaggcagggc ccttcaaaaca acagggtggc gggccaaggg 240
 gcttggggct cactctaaca tgcaaaagtcc agctgccccca taaactagggt tgccttttgaa 300
 gagcgacata cgtataaata cataagacac agctacacgc acacatgcgg agaaggctct 360
 gcattcccaa ggggtanggat ctaggcctac tggccccaag acaggagtca tcatgtgtct 420
 gccaccaagt gattctctga aacactccag gtgggtggggc caggcaggta agtcttcggt 480
 gggatggctg cttgggtctcc aagggtgctgc ccactaggca cccaagccac ttt 533

<210> 172
 <211> 400
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA859633

<400> 172
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 aagtctttct caacagcgag aaaaatgtac agttactcaa agctgattct gccagtgggg 120
 ctggggacag aagtgggcag ggtagggtga aaccacagag ggggatggag ggtgggaggg 180
 tcagggtcct gcctgtcaga gtagggccgc ctgcgtcctg cactctgctg tcagggtggg 240
 gggaatgatg aagggttggg ggtaagggag atgggctcca cactgtctcat tccccactg 300
 tcatgtgtct gaagggcagg ctgcacaagg tggctgtcag tttgtctctg aggaagtctg 360
 ctctcttggg gaaggacagg tgtcagcagt ctgaaggagg 400

<210> 173
 <211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA859645

<400> 173
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 tgcgttgggc ttccacatcc tgggattaca aaagtgtact accttgcata gcttccaaca 120
 tgtttttata agtgctctga aactttcttc accagaatat tttctctgag tgtatgtgag 180
 tgaagttata catatgtaca catgcataca gaagccagag gtcattgaatg tcttctctcag 240
 ttactctcta tcttattttt tgagacaggg tgtctaactg aatctagagc tcacagatgc 300
 agcttctggc tggccagcaa gccccaggga tcttgatgtc tcttgcctcc cagtctggag 360
 tggcaggcac aactgcatg tcccgttttt tatgacagtg ctgcgagtgc aaatccagggt 420
 ccttgtgctt gggtagcaat cgctccatct actgagcatc tctccgacct ataaccacac 480
 tcttgcgcta ctacagttct catggcaaaag gcaaagaaca ccgatcttt cgttcaaacac 540
 agatt 545

<210> 174
 <211> 283
 <212> DNA
 <213> Rattus norvegicus

<223> Genbank Accession No. AA859837

<400> 177

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gactcatgtc ctcccaggag agcgtcatgg atgtccaagg gccttacacg gagctggaga 120
atggaacgac ctgctttcca cccacataaa cctcctcaat gtttcggtca tctcctagat 180
agaggaactt ctggataaca gcctcagaaa tatcaccaac gaaatcccca caaacagat 240
caatgggaga gtccgatgct ctgggggttga tcaagagggc atcaaaatcc ttgccgacct 300
caaagtttcc aatttcacga tcaagcccca gggcttggct tcctccaaga gtggctagtc 360
tgaagacttc tttgaggggtg aggtttttct cattcacctt attaattaag aggacgttgg 420
aaaccatcac tgctcttcgg atggcgtcaa gcattggaata ggagtaacca ccagccacat 480
ctgtcccaag ccctatcttc act 503.
```

<210> 178

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859933

<400> 178

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agatttttaa agactggatg gttgccttgt aactttttcca ttcccattta gaaagataac 120
tagaagcaat gacaaaaata accacttaaa atagggggatt cttccccga gtttcttgta 180
agcgtaatgc caggcattcc actcttcac tcagaaaaga aaaataaaag gctttggagc 240
acaccaacct ttactcagat ggacaaaaca tctgcctcca gttctcacgt tagaccagga 300
cgcatatcca gagtggttgg tctccatcca gcccatgctt gctaaagcag ccgagtaaat 360
cccaaggtca gtcccaaccc caaccttcaa cagtatgaac tgcttacacc tcttatgaca 420
caagccatgc ttcggcggaa gggtcgggtc agacaccct catctcccgt ggggtgaatca 480
caacagcagt catgtttgtg ttctcttccc tacagttcag tgtgcaaagc catt 534
```

<210> 179

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859938

<400> 179

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tttttttttt tttttttgct ttaaagtaat ttttattgcc caggattttt tttttccttg 60
tgttttgctt tctttttttt tttttttttt tttttttttc cttttttttg gtttgttttc 120
atttttataaa ctcaagctca gggaagcttg tttttgtcct ggaaaacaaa acaaagacta 180
aacaagctt tcatagtatt atttgcaaac ctgacctcat ttagaaagag atgtaattgc 240
atggctagaa cacagcttct agcatgaatg atgcaggtgt gactagtggg actaagagga 300
gacgatgcac tggtgacaag attataatct gctggtggcg ttgctgaaaa aaaaaaaaaa 360
aaacctttgc cctcgtgccg 380
```

<210> 180

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859971

<400> 180


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tttttttttt ttttttttaca aggaagcaac tttattactc gttcttatta ctcattccca 60
gtcagtttct cttcttgctc ttgccagtga ctttggacgg cgtgagggtt ggagctgtag 120
cctggtacag agtggaggat atcttggtga tgttatacag accaaccatg gagaagatga 180
atcaagtggg gacacagact ctgtggatga ggccatatgc gaagagtgcc aattcttatg 240
gaaacgcctt ttacagtcac cgctgatgtg ctcagcagat acagtcttga aggtccggag 300
gcctcttggg gtttctacat atcccacaat agccacaacc accatgggtg gggtttccac 360
aatggtcaca ggctcgacaa cttcgggtctt attcacctta gatcctgggc ggtcaacttc 420
ccgga 425

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<210> 181

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859980

<400> 181

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tttttttttt ttttttttgca agggagggaa gagtttattt ggctttcaat tccagttaca 60
gttcatcatt ttggggaagt caaggtagac gtttgaagca agtaccatcc tgtctggtca 120
agcagagaaa taaatgcact gaaggcgctt gctgtcact ttctaacaac ccagaggcac 180
acttgttgga acggccaatc ttctgactga aatagctaga atacctaccc caccacctca 240
gcttagaaga ggtcactgaa tccaatttcc attacaggat tggctctgat ttgatcaatg 300
ggaaaccaca agacaacaag caagcagggg tgtttgagcg aagagcctga agttcaaacc 360
agaagccaca tccccattcc ttgaatggat catattgggg gccgtgcata acggtgcatg 420
tctttaattc aagtactcag gaggcacaga aagggtggatc tctgggaatt gaagccaagc 480
tcctctacaa aacgatttt 499

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<210> 182

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA859994

<400> 182

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gcattgaagt tgcattgact gataaaagtt gatgcaaat gagaaagaaa caaaaaaaca 120
aaaacaaaaa aaaaaaaaca aaaaacaaaa aaaccagcaa aatgtttacc aaaaaactca 180
aacaaatgag cagtgcctgt tcaatttcac agtctctgtt gagttcagtt gtaaataatg 240
ttcaaatgac attttcttgg gaaaaaaaaa atctctacaa cattgtggaa tgtgaggggc 300
aactgtctcc cgggcatagg cgtctcaaag ctgcagtaga ttgcgccttg atcagggtgt 360
taatttgtgc ttttatcacg gagaactttg agcatcctgg gaagaggtgc cccacacctca 420
atgatatttc tctgagaaca actttttagt gactgtgttt ctttagatac atttagtaca 480
actgtagggt acgagtagtc agtgattgct tgctagctac acaccagggt tgatccattt 540
taaaactttt ggcattttgt cctcgtgggc cataaatata gaaccttgtg t 591

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<210> 183

<211> 417

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA860010

<220>

<221> unsure

<222> (1)..(417)
 <223> n = a or c or g or t

<400> 183
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 caagggggtg ggaggtgtag ataatccagc aagcatctcc ccatcaggaa attatgtctt 120
 ggggcttgga atacagaggg gaggtgcaga ctgcattcag tggagaaagg ggaagcccag 180
 ggggagctga aactgagtag ggtcttatga gaactggtag caaggagcct gggtaaggcc 240
 tctggcaagc aggtccccta agtctgtcaa gatgctgtgt atggggttca gaaggacagc 300
 accctaaaac agagaacaaa cttgccctac tttgcttcct accttgggtc ctatatgcat 360
 tcatgaccct gaatcccatt gctgttaacc tctgaggtct aattccttan ggactgg 417

<210> 184
 <211> 308
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA866240

<400> 184
 tttttttttt taaattttaa ggaaccttt attttaaccc aggaatgggt acacaatgac 60
 acaagggatc aaaaattggt atatgaaaa aataatacaa gtggatttgt gcaaaaaccc 120
 caaaaactgc aagtgtcttc gggatcttaa aacaaaattc aggatgggtg ataaagggaa 180
 gggactgggt aaaaacctga aggggatttc aaaaggggaa acattttaa ccaaaatgcc 240
 cgatttatcc aggaaggaat gaaccaaacc tggaaaatgg gtggcaaaaa ggcaaaacca 300
 ttcaaaac 308

<210> 185
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA866276

<400> 185
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 tagatgtgag ggggtgggaa ggatgactga cagcaggtgc tatagaaacc caaagctcca 120
 gaaaatttaa aaaaaataaa atatatatat atacatttat atatatatat ataccaagta 180
 atgcatgtga gtcccagaga agcagaaagc agcagcaaga agcaactagc acacaaggac 240
 ctgggttcat gtacagcaca cacaagccat tccaatcctg ataaccaccc ccaagcccag 300
 cccccacccc caagaaaaga tgtttaagaa acttccctct taaatggggc tgcacaactg 360
 ggggtactgt gcacatctgt aatctcagca cctggacggg ggagacgtta agataagggt 420
 tcaatggaag ccttagcgac acaattaagt ttgagaccag cttgggctac attaagaaca 480
 tctccaaagc tat 493

<210> 186
 <211> 519
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA866426

<400> 186
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 tattataaat gtctctgtat aaataaatgg cggttttttt tttaaacaat tctatatcaa 120

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ataacacaaa ttagctatatt tacagcagct aaaaactaaa ggcattctgga aacattttaaa 180
gctacaagtg aatctaaaaac tgacaaggta tagtacagtg tgtagtagcc acttttaaaat 240
gacactttcc atacaagcag aacagtactg acagatgcag cagacagatg tgctttaaga 300
acagtgcatt caagcaggat tttctaattc aagtgggtata aaaaacattt tcaattaata 360
aaaaagttaa atttcatgca aagtaagtta atatgtctaa aagcaaatta gaaatagaag 420
tgaacatttg tagttgttgc atcaggaagg taagtgtccc aacaggagca ctgcagaaga 480
acgtgtcgga ctctacagaa tcccttccac atctcaacc 519

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<210> 187

<211> 301

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866435

<400> 187

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tatttttttt tttttttcca cctataatgt tttattgtta caggcagtg c tgatctctcc 60
cacgtctggg atgacatcat gtggcatttg aactgtctct gtgcccattg ctctcagggg 120
ctacagtggg ttggatgtga ccagggaatg ctccccgtgt ctggggtagt accacgatta 180
gagacatcgg aggcaagcac aaatcttcaa cttcaggga aatttattcgt ccagccatat 240
gctgatactt ctgaattttg ggcacggacc ttcagttcct acttgctcgt catcttctcg 300
a 301

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<210> 188

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA866454

<220>

<221> unsure

<222> (1) .. (534)

<223> n = a or c or g or t

<400> 188

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ccttctgcag gctgatggaa ggaagggcgc tgcccttcat gtggactgtg ctgtggacgg 120
atctgactga gaggagcccc agtaccagc agaatggagt tgagaagcca gggcgctcac 180
taacagagca ggggacaagt ggcctcctta gaaggtgtgc atgttctggg tgttctgagg 240
taacaggcct gtccacatgg cctgcatgtc cattgatggc ctcccaggct gctagtagaa 300
gtgaggctgt tgctggcacg acgttactgc aagcagcaac agagtctcgc tatccacaaa 360
gctgagcatg tctaccactt agacatgcag actccttgtg tcgcagagcc cctgggtcac 420
cagcggaggt atcacctgnc gggcgaggc atgcgatcgt gaccgttccc tccaacttag 480
tcgaaacctc ccgctgccgt ggtgctaaaa aaaaaaaaaa aaacctcgt gccg 534

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<210> 189

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA874889

<400> 189

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tttttttttt tttttttata gactaggaaa tataatttat ttcataaaaa ttaattttgt 60

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tacaagagga atgctaaagg ttatttacaa gttgtttaca gaatgaacgg gtgggggctgg 120
gactatcccc agtggatcag aacccacaga cacacagcca tggtcacagc ctgacatcca 180
agctcccaca caccgacct ctactagagt cccagaggag tgtgggaacc taaggggcct 240
cgtggagcat cccaggataa aaggacactt aagcccagag aaagcgggta tgtgcctgaa 300
gtcacacagc atagctacaa cttgggtccc gggcttccca tttctatgtg cgggctaaca 360
gtgaccagca agagtatgcc cacggggatg agcatctttg gcaggaggag ctgaggacac 420
tctatgaggc accattcacc tagatgccag gagcacctcg gtctcagtcg tagagtcca 480
cttcaggagc cactgcggaa accc 504

<210> 190

<211> 536

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA874928

<400> 190

tttttttttt ttttttttga aataaacaca acacttcctt tattatataa gtttggcaaa 60
cagcacaaaa atccagcaac atttttaaca tgtaaaaaag tcaaagtgtca aacagtactg 120
agtatagttt gaaacattag aaagaatgag tgcagagtta ggattctgaa gctagcagag 180
caaggcttgg tttctgaaca tgtacatgaa acacacatta aaacacaaca acataattta 240
tctttacaaa acccacagcc aggcaatagg aaagcacatc agtggggaag gttctggccc 300
acgtgtgttc actgagtcct acatatggaa gctacatcta ccctgaaata ccatgtgcac 360
agggccaggc aggggaaccga ggctgctact gaagttaaca attatttgag aataataatg 420
ctcaattaaa tccttctgta tagcaatttc tattataata atgaatttat tccgctgcaa 480
atctgagaag ctgagactta tttgttggca gtataaaatt tctgaccagt atcaaa 536

<210> 191

<211> 443

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA874941

<400> 191

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aaggtcctca ttatggatcat tcacagctca cttatggctg tgcccccgct ggccctgaca 120
catgagttct tcttaccggt ctggtatgtg gagtgtgtta gttttgtgag gacctcaca 180
gaaccttaaa gctcaggtgc gcttacagtc ttgtccatgg cctttgtgtt cttattggct 240
gtaaacgtct gtctgttccg aataaagatt tgttcatgct gcctctgctc tgaatgggca 300
tctgctcctg tgtggtccga gcaggcttca tcaactgtttc cctcaaggca tgttcttgtg 360
tggtctgaat ttagtttttt tccatgtgaa gaaatatcac ctttggacce aataaaattc 420
ataacagggt aaacctcgtg ccg 443

<210> 192

<211> 516

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA874999

<400> 192

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tggtccaaga tatgttgggt ttttccttct tcttcagatg atggatagat gcagccaaaa 180

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tctatgaacg cgtgtacttg ccccaaagt gcagcataaa cacagaagcg atgaacagaa 240
gactcatcac cagtactggg acagggccaa ctttgagccc tggggaatct tctgtgtaga 300
atcgccacat cccccagtc cctgcagagg tgggtgcggcc tgcactccgg gttccgcagc 360
tggcattttt tctctgccgg acagtggatc ccgccgccc tgcggccact gctttgctag 420
gagaacgccc agaggagccc acgttggtgg cactaggcgt tggaccggcg atgctgatgt 480
ctaagaacag taggcacaag agatatgaag atgaaa 516
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<210> 193

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875032

<400> 193

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aagtaggaaa gccacaaga caacaagaac ataaaacgag aacaaacccc gagggaaaaat 120
aagttttaat atgttcttcc ctccatagca gcaagctcta aacagcttcc cttagtgtcaa 180
atactgtagg cttgtgtcac acacagtaca cagaacaacg caacacacac caccacagat 240
gcttctgagc agagatactc ctcaaaaatt taaaactata caaagatttt ttgagcacgt 300
ggtcctgcct ggagaattcg actagagaga cctccttagg accatttcac cattactgta 360
aaaacgggac aaaagggtccc cagaaaggaa attagaattc cccatggagc cataaaacct 420
tgtacaactc gtttgccctc aggggtctaag agcaaatttc actgcacgtc attgacatat 480
cccaaatcag gatgcataaa gcttgagttt ctacgatata ccaaaatcag atatatatac 540
aactccact gcaaaagaaa ccctgatacc tagtctttat 580
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<210> 194

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875041

<400> 194

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aaacataaaa gtagcagaaa tagtttacgg agccaacaaa gaacttcaaa aataaaacaa 120
aacgaagcca tcaagagcaa agcaaaccag aaacagggaa gagaaaaata actatgtact 180
tggctctcca aatgccagtc catccgaagc cagcctctac tgagggtccc agtggtcaag 240
agggaaagca gtctccactg aggggcactg tggcctgttc tatggcgtct gaggagaact 300
caggctctag ggaaatctct ggtccagcct ggctttccct tggacatctc tcttacctga 360
gacacagccc aagctggagg ctggcttcag cttgctctta gggtccaggc actccagttc 420
gtctctagtc cgccgtggcc gctcctcgaa ggtctggcca gaggcaaact ccttctcatc 480
gaaactgcgc tgtagcttct gtagtgagc ctcccgtctc agcagcttct gctccagctc 540
ctgaatggtg cactcatccg t 561
```

<210> 195

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875047

<400> 195

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aattcattga agatagagtt aaaaaaatcg tagaactgaa gaagaaagtc tgtgggtgatt 120
```

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cagataaagg atttgtcggtt attaatacaaa aggggattga ccccttctct ttagatgccc 180
tcgcgaaaga aggcacgtga gctctgcgca gagccaagag gagaaacatg gagaggctga 240
ctcttgcttg tgggtgggata gctctgaact cctttgatga cctgaatcct gactgttttg 300
gacatgcagg gcttgtctat gagtatacat tgggtgagga gaagttcacc tttattgaga 360
aatgtaacaa tccccgttct gtcactttac tgggttaaagg accaaacaag cacacgctga 420
ctcagattaa ggatgcaatc agagatgggt tgagggtgtg caaaaatgct attgatgatg 480
gctgtgttgt cccgggtgca ggtgcagttg aagtggcact ggcagaggct ctgattaaat 540
acaagccca 549
```

<210> 196

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875050

<400> 196

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aaatgaatca cagtggaggc ctataccgga cccctcagg aactgtaagg actgggacgt 120
ggacactgaa ctgacaacac cgtcagcatc tggacatgcc caggcagctg tgctggcctc 180
acggcaccta ggccttgccc ccttgccctc caccattcat tccccaatgg gaagaccaga 240
agttaaagttc agaatagaag ggggagaggt ggaggatgct gctggctctg gtacctgccc 300
catgactcaa ggcaggcct actcccaggc ctctgtccct ctctctgca gggacctagc 360
aggaacaçga ggaggggacc tagggaaggg gtggctggat ggcactctggc ttggagaaagt 420
tggcagcctc agataaggca gctgctggag gaactgtcag gtgcagctgg gacctctccc 480
cccaagatga cagctgaatt ggcttcctgc tggcttggag ctccagcact ctactgggg 540
catacat 547
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<210> 197

<211> 335

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875097

<400> 197

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gcatctcagc tgtgttcagc tacagtacaa agaacaatgg aatagcacca ggggaatttct 120
aaaaagttca caagatccgt gacaccttcc tcttctgac attcttctcg gctaaccaag 180
caaagaaagc agagccccca ctttccattc cttcagctac tgtccacca gcggtctgat 240
tttcatccga acggccctca gagaataatc cgctcctctg aagggaaccc agaccactcc 300
gttctctatc tcatagggac tgttgttcct ggggt 335
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<210> 198

<211> 569

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875126

<400> 198

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gctacaatgg ctgcggttca ttctattcag atgtcagaca ataggcacag ctgggttcct 180
tattcaaaat ctgaaggagt ctgggaggag gacaaacaca tagatagaat caagcttagg 240
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ccaggaacca gaaactacgg attgctttgt taaaggccaa ggaggcttca aaagcgaaca 300
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agccccgatgg ttctgaagtg ccatcaagtc acttcgagct ccagcaactt aggtttccag 420
gacatcttct agaagaactc gatcatccct tccacgttat ggggccactc acctggcctc 480
gatgccacc tggactcgaa gtagccctgc accgcgcctg taccctgatg acgacggatg 540
cagaaaaggt gagggccgcc ctcgtgccg 569
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<210> 199

<211> 438

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875225

<400> 199

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aggggcctga ccctcagcag gcagcggcgg ttcctagatt agcgtaagg agctacattt 180
agggttaatgg agcctggggc caaggcttca gggcagggcc ctcagtgaac ttggcagttg 240
tctggaacag cccttgggat ccaattccgt ggagggcagg gcatggggcc gcccaaagag 300
ggatgggtgt aaacaggcag acacactcaa ggcacggaat cactggaaag gggctggggg 360
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ctagatttgc aattttcc 438
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<210> 200

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875253

<220>

<221> unsure

<222> (1) .. (540)

<223> n = a or c or g or t

<400> 200

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acaagagttc atacaaacat tactttgaat atccgtaaca acttgagcat gaatgttttg 180
gttggttggg tgggttgggt tctgttttgt tttgagacat agcctcaagc tgcccaggcc 240
ggcctcagac tcaccacaaa gctgaattct tggctcttct gcctctgtct cctgagtcct 300
aggattacag gcgtgtgcca ccacactgtg gtgtctgtct atgctcccag tgttggcatt 360
tccgatacag tctgatttag gacagttcct gaccacaag cctgactctg aaccctataa 420
cacctcactg tanggctggc aaagcaatct agcagaacct caccttctct acagagttcc 480
tgcacaaagt tcagggtcaat acagaaaacg cttctgatga agcgttcctc gtgccgaatt 540
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<210> 201

<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875362

<400> 201
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 accacattgc tgctgtctgt tgttggtga gatgctcgt gtgtgggagg cggtagaagg 180
 cagatataaa tacagtattt tgagatcttt ttcttttgca ttaaaaaaaaa agccatccac 240
 gtgataatta ttctctgaaa gttccaactt acatagaaca aagttttgag cttgtttgtc 300
 tcaggaagct gatcgagaa ctgggcttct agtccttcta gctctcaaag gattcctagt 360
 cgaacgaat aatggcagaa agacagagtg tgccagcttt gagacagggt caatgtcaa 419

<210> 202

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875495

<400> 202
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 taaaactcaa agtttggtc ttctcagggg cgggagaaaa atgagttaca gctgatctgt 120
 acaaatgaga cacagggtag gaaacagcac gtcacttcta aagcaatctg gaaggggggc 180
 gctgaaggca cagcactct ctaggagaaa tctgcggcca cttcagagtc ccaccaggta 240
 agaaaatacg agcttgcat ccttttccgt gtcctatgt atttgagaag gaaaacaaac 300
 agaacaaaaa cccagaggac acacagggcg cttccagagc ttagatttgt taaaagggtc 360
 taagctggag cgcccgagga gtccctcctgc catttctgta aaacaaattg ctctaattatt 420
 ttacagaaca agatagaaca gggttggttt tctgaagaag ctgaaacacg aaggttcact 480
 tctttcccat tttacgtgtc tcctaaacct gc 512

<210> 203

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875531

<400> 203
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 aaacaggact tcttcggaac cacggggagg aacgaaaatg aggctggcaa agaaacgaat 180
 gctgaatcta gagaggagag aatctggggc aagtgttctt cattccttta gttggggata 240
 aggtgaacga gagggccgct aagtcaaatt aagaatccca ctactgcac atcactatgg 300
 aggatcgagt cttctgtaat tcttctagct ccatccacat tctcctagta ggtctgggaa 360
 gaatagtact agggttatta ggaataatag taatataaat acacctagga ggtctttaat 420
 tgtataatat ggatggaatg ggattttgtc 450

<210> 204

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875537

<400> 204
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 gtacagaata ttcataagca aaagatacac catgttttaa gtacttaca agttacaaac 120
 catttgcttc cttaacattt tctgtttttt ttttaagttc acaacacaag tatcagattt 180


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accattttgc gctttttttt tttgagggaa ggggggtgta tttatcatca gctagatgtg 240
ctcactgtat gctccattat ttatatgcaa ggcccgggtg actggaagtg cagttgtcag 300
gcattttaat aaactggaca gccatttgtt tctgcacgac aaggcatctt tacacaggag 360
caatcaggag aaaacaggaa acagccaagc actctgcact gcaacacgcc accttaacag 420
ctaaccagca ttactcaact gctacacaac tgcgcctagt gcacaaaaat acataagaga 480
agagattaga attgtgtcgg gtaaacaatc ctttaaaaaa aaaataagtc ttttcacctg 540
aaaagtc 547
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<210> 205

<211> 404

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA875620

<400> 205

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attggctaatt gctcatgttc aagtgaggct ctgggttcagt ctgggctgcc acctgccatg 180
cctgtgatgt gggacagcca gcacccacgg ctttgccgcc tttcacgctc ggatagctgg 240
caacaaggca gtagtaaaaa ggagtccaac ttgtcagttt tgagtagcag ctaaggcctt 300
ccagcacag aggacaaagg gcttggtata caatgagatg atcatgacat tctagtcact 360
tgtaggaact ccaccttagt ctgggtccta agttagccca catc 404
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<210> 206

<211> 216

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891032

<400> 206

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gcttaaaaca cggacagtga cccgccccgc cccacggctt ccgtgaagag ttgcttgcca 120
aagcacagct tcttccaggg ggtccccagc agggcattgc ttagcccaaa ggttccgggg 180
gtcaagacaa taggctcagg ccccccccg tttcca 216
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<210> 207

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891041

<400> 207

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tcttccctag tatccccaca ggctgagtag caggcgggcg ggccagctcc gccgcgacaa 180
cccccttctc ccctccctgt taaatacaca aatatattat attcaatatg aattcagttc 240
ctttccagaa aaaaaaaaca tacaaaatac gctggaaggg ggccatgtaa acctcgagggt 300
ggaaggactg ggcgaggcg ggcaggccag agtccagttg gtgagctgcg cccagacct 360
ctgggcgagt gcccatcgcc tgccccctc accccagttg ggggcgggag cccagccttc 420
aaggctgggg gtgtccgtat ggagca 446
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<210> 208

<211> 412
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891068

<400> 208
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 tgaattttaa tagagacttt ttaaaatttc tctcattgca atataatgtt agtgatttta 180
 aaaaaataga aggagattta gcagcttttc gtcgtgtggc aggttggttc tcttcaactgc 240
 cacaggctga gaatgctgaa caggaaaggc accaaagaaa gacactggcg atgggtgtgg 300
 actgggagaa tactgtgttc aagcagagaa tagggctatt tacatccacc aactaaaacg 360
 tctccaaatg tgaatgagct aaacttcct cgggggttg agcgctacct tg 412

<210> 209
 <211> 513
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891108

<400> 209
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 tcagtacaca caataaaagt taaagaaatt caaaacctgt ataaaacaaa agagagagag 120
 aaatcatata gcttaagaga tacaggggta aaggctctct ccactcttga tcacacttgt 180
 ctctgtaccc aatagaactt actgcactta ataagacata cagacatttt agtactgagt 240
 gtattaaaag aattaaacac ttttctaaaa atctttcaat gacaagttgg tacccttttag 300
 ctaactaaag ctaaaagggtg ggaggtggga aaagggaatt aactagtatt ttgtaaccat 360
 ttttaataat ttcttatttt ccaaactctg cttttataac agaagtgttt tacacttgca 420
 cagtattaat tactttatta tacatggaag cctgtggtac gctggttaca caatgagact 480
 gcaaaactacc agtggtagct tctgtacgtc aga 513

<210> 210
 <211> 474
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891161

<220>
 <221> unsure
 <222> (1)..(474)
 <223> n = a or c or g or t

<400> 210
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 gtgaatttat gtacttggtt tgtagcaagg aatttccatg atggtgtgta cctgggtctgc 180
 gcacaccttt tggtagctag ctatggcttc tgcaggaact tcagtctgca cactgctgag 240
 aagcctactg tgaactgttc tcaggtgtcc agctgagggc aatgctgagg aagaccagca 300
 cagttgtcct tccttatata ccattggcacc tangcagggt caagaaacac ggcacagcat 360
 ttcatacaca aaatacagg agccaacatt tgacttgta agtttcagat ttgatcatcat 420
 gttgttttgt tgatcctcca cataattcac aacaggaaga gtactgcaca ttga 474

<210> 211
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891194

<400> 211
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 atacagagag tagaaacagc aattttttctt aaatataaca ggcaacagag ttgaagattt 180
 gttttcataa atgggtgtgaa aaagtattca tttatcaaca aggctgcagg tggccggctg 240
 gctggctgac tttccaatcc caagtttttc taatataaag ctagtgtgta actggagagt 300
 aaagtgggtt tcttgaagat gtttcttcac ttcctgcccc aacaatattc ctctgtaact 360
 ggaacattgt tattatatgt atttcagagt agttacaaag atctttctga gtcacaaaat 420
 tttgtgcaga cgatatattc cagattccacc ttagcttctg atctg 465

<210> 212
 <211> 627
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891221

<400> 212
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 acaaaatggt tgcttccaag aagtatgtca tacttacaag ggaaaaggta attaatattg 120
 aacattttcc ttgttcaacg gttctaattt ttataagggt tttataagtc tcatagtcac 180
 taagcagggt ctttttgaaa ggtaggcttc atgaccatt tgacttcgtg cctttacatg 240
 acatgacaaa ttatttttatt caaattatgt tttccaaaag agagggttct gtgctagtcg 300
 tctttgaaag ttttcatacc atttcagaac cacatttgct gggatgaaca tttccgatgg 360
 atttgggtgc atctgggctt gagagagagc aaatgatgaa gcaaaattgt agaagttgtc 420
 caacatcttc tgtgtgaact gtgtgaagga gtcaaccgag gacacagcgg cactgcctac 480
 gggagtctgc tgagccaaac tgtccaacaa ctccaccgag attccaatct gggcaacaga 540
 tggggttcgc acaatattca tggctccaaa tgggtgctgg cttccttctc cagattttaag 600
 acctgatatt ttgaagatgg cacttgg 627

<210> 213
 <211> 474
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891286

<400> 213
 gatcaacacc ttttattggt tcacattttt tttccagaaa aactgtaata aaaatacatg 60
 gaattggaat ttgggttaca gtacattgtg cgattacaga acataaacga cgaagtgtac 120
 tccttccatg ggggcggaac atttcatccc accaatagaa tcacaacatg attaggcggc 180
 taccctacac tgtcgttctg atctcagaga ctggcagact taggagaaaa aaaaacaaaa 240
 aataaataaa taaaactcaa cagtccactc ctttggttcc ctggtctttt ctctcttca 300
 acacacggat gtggggcgga tctgaggag cctcgtgggg caaggtgggt gccgctggct 360
 gaataccagg caaaccggt cctgagggtg gccccacaa gtactgggaa acgccactca 420
 gtactgcagg tggagatggg cagaaggga gacaagaaaa ctctgcccga attc 474

<210> 214

<211> 484
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891423

<220>
<221> unsure
<222> (1)..(484)
<223> n = a or c or g or t

<400> 214
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tcccgggctt ctgggtgtttt gtccctcggat ccagcagttc ccatgtggag gctgcatggc 180
ctctgtcctt aacattgatg ccgtgggtca tgaggctcctg gcggagtgcg tcacatgcct 240
ccagcaaggg ctgcctctcc tggagctgct gtttcggggc ctccccgggtg gccccaggcg 300
tgccagtgct atactggcgg accttaagcc tgaagcgcac tagttcatct accacacagt 360
gcanggtac tgtgctgctg tctcctgaaa cactctgtcg cttggccaga gaaatccaac 420
agtctcgaaa aactgctcaa cgtaggcaac gatggcccca aacacagtgg gacttctcgg 480
gcca 484

<210> 215
<211> 614
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891553

<400> 215
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tctcttctc cctcatctcc ttctgctctc tcagagctga aggtgccatc aggcaagctg 180
tagactcggg tgacctgctt gttgggggtcc ttgaggatga ggtatttgcc ctctctccagc 240
ttcatgcaga tatcaatgac acagcgcagg atgccccagg cattctccac actcagggtt 300
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gagtccttta catggtaccg ggacacatac ccgagcttca agtactcaga gccagccagc 420
aaagcacagc acgtccatcg cgccaacttg tagctgttgt tcttcaactc agtggcgatg 480
acagccccac gctgagagtc cagcttctga cgccagtcga cgccattaca atgcttgag 540
tccattcat tgagtgtctt gatgttgatg aaggacactt cccggttggc cccagtcag 600
acgccatcat gtcc 614

<210> 216
<211> 493
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891694

<400> 216
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ttcttggttaa tcgtattctc catttcaggt gtgatttaact tcaagatggg ttacaggtac 180
tataaacttt tattttgttg tcttccattt gttccgagtc aacaaactct gtgaaatata 240
taaaatacag ccgcaacaca gaccagttac tgtactcaca tacaatgat ctgaacatca 300

cgtaaggaca caagtttccag aaaaggagta cttcaacact acttcaacaa cgacgatagt 360
 tttttcataa ttatgtataa atacattagt atccaaaggg cgaatctctg tactatttct 420
 agataagaat gtccctcaaat gtgtaactga attacaaatt atagtcttac atatgctttt 480
 aaagtaatca agt 493

<210> 217

<211> 516

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891735

<400> 217

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 gcttagtcac actcaggtga ggggtgacagc tcctcctgga ttttggttcc atttatttaa 180
 aaaaaaaga aaagaaagaa agaaaaagcc acccctcac tcccagccca ttcctcacag 240
 ccagggtcag aaagcagcat cagtgaaggcg ggttcctcac ctctgggtat ctctggccca 300
 ggtcagcttg agccacctgc cctcaccagg agaggggttc agttggcagt taggcttggg 360
 gaagtctcta cctggacccc ccagaggcct gggagcacc cctcctccc aggaaaggga 420
 atgcagtgtc tactgggctc agaggggttg cctcaccac ctgacatgag tcctgattct 480
 cccatctcga ggacggcagg aagtttattg caccag 516

<210> 218

<211> 593

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891738

<400> 218

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 ttaatcccc gattctggag actaaggcag gcagtttggt ctacaaagtg agttccagga 180
 cagccagggc tacacagaga aaccctgtct tgaagggaaa aaaaacaaga tgatgaagaa 240
 gaaaaagaaa taacgtacag tttttacaca ttccatacat cacacacata tctgaagaat 300
 ctaagcaatg caaaacaagg cctgagggga ggcattgaga gtaaggtat ggtagggtaa 360
 gaaagtgatg tcttcagagc tgctttctcc cctcagtaga ggaaggaaac gtttatctat 420
 ggcaccgagg attaaggctg ggttggtaaa gaggtgtagg ggtcctttgg gtacaaactg 480
 ctgttccatg ctttcatgga accacctgaa cgtggacacg gtgccaggca ttgctgagca 540
 cgcctcgaag gttccagatt gggggccacag tgtctggctg cacattgtaa ctg 593

<210> 219

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891739

<400> 219

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 tgcgattgca cagcgcggcg tacggattga gcagaccaa ctggcgccgt gcgaacgagc 180
 tgcccagtct cgccgcctgc tcgaagtctc tgcgggcatc gtcgtcccga cccctgaaatc 240
 gtgccagcag cccgcgctgc acgaagctct ggcgggcggc gcgaccccg ccgcgcgtca 300

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acgtcaccgc gcgctccaag tcctctaggg cgcttgetac atccccctgg agccgcctcg 360
cttgggcacg gttgtgttac gcagaggctc tctcaggtag caggctaatt gctttgccaa 420
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gggccttgga ttgctccaac tgtgcttgag ggaaaactcc atcttcatct cctcctctcg 540
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<210> 220
<211> 511
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891740

<220>
<221> unsure
<222> (1)..(511)
<223> n = a or c or g or t

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aacgaggccc cgcccaccga catcagggcc cctcccccaa ggcatgggga ccccggggca 180
atgacatcat catcctcctg agtttccacc cccttggtct gaggcgggat gacatcatca 240
tctttgtcct gctctgggac cgtagggaca gcagcctgag aatctgcat ccaagcctgg 300
aagttcccat gatgtttctc gaagaggcca ggggaaggag cgcgggggtc ggggacacca 360
ggcagcaggg cttccttcac cctgcgcata cgcagcaggg ccaggagcag caccaggggtg 420
agcaggggcca ccggaggcca caggccaggg cgagaggtgg ggtgggggtc ccgggggtcc 480
tcgggagggg ggggccagtg cangagcctg t 511
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<210> 221
<211> 555
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891774

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<400> 221
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gggaaaagaa aaacggggag gttgaaaagc agagaggtgc accttccctt ctgaggaagc 180
aattctgggtc tgggaccagt tgcaaggggt tagtaagaga aacctaaggg gtgcttacat 240
ttttattctg gcaaataaat ctcttaaaaag gctccctcct aggggtgctt acatttttat 300
tctggcaaat gaatctctta aaaggctccc tcttcgttc gggggaacag cacatgtacc 360
tgtgtcagcg tgagatgcaa tgctacacaa gaacgtggca ttgggccaat catgtggacc 420
cctgtgctgc tccaaggga gaggttctgt ttgggtgtgg gataaatcta aacaagcata 480
cactcgtggt atatgtggcc ttaagggtag gggagcaaaa ggaatggact tctctgtaga 540
gcagctcaag aggga 555
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<210> 222
<211> 636
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891789

<400> 222
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cagaaaaactg tggctacaca ataatgcatt gcctctatca tgttagaacg tgcattagac 120
tcaaatataca aaaccaggaa acaaatcacc atccttcaac aatttgagca aagatagaat 180
gaatgcctaa ggaacaacaa agatggactt gcagaggatg ggctgtttac agacgtcaag 240
caccataaaa aaaaaaaaaa aagcacaaat gcgtgggttt ccaggatat acagtaagtt 300
gaaccttttg cactaggaac cagggcatct catcacgtag cattaacaca tattagaaaa 360
ctgtgtagtg tcaaagggat agaaccacca gcattcaagc aatgttgtca actaggcaat 420
aaaatggtct actgaacttc ttctttgtct aattactgca tacactggta gcaactttga 480
aatgaggaaa ggagctgggc actcctttta ttttctgtct acaacagAAC aggaaacaaa 540
ctgaaacata agccctgttt tacatcgaca gttttaaaga acatcaatta tacaatgaga 600
gggactaaac agaagtgttt acagatacca gacaat 636

<210> 223
<211> 609
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891790

<400> 223
ggagctcttg caaggattta tttgctacag aattgctttc ataccccagc gagctggact 60
aaggacttct gggcttaaaa ggatttaggt cacttcattg tttcaagtgc tgtgacattc 120
aaaaagcaat tttggtaggg cagagatggg gttagagtag accatttgcc atgtggtaag 180
aggcgagaaa aataatcagt aatattaaac gtctaagaat agagaaggaa agaatacttt 240
aaagtccca tctggacagt ccctgagctg aaatcacatt tatgtgtgaa gagaaatgtt 300
tggtgtgtga ccgtgaagt acagatgctg accttgggct tggctgggtga aagcttccag 360
acactctgaa tgacaggata tacgccactc atctggctga ttctggcacg tgcctaaaat 420
gtctcctaaa tcccaactct cctgggtctc tgaaaggcct gtggctcatc gatccccaat 480
acttcttttt atttttgaga cagggctctc ctacatagcc ctggctgtcc tggagctcca 540
tgtagatcag gctagcctcg aactcacaga gatcctcctg ctctgtcttc ccaagtgtcg 600
cccaatact 609

<210> 224
<211> 591
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA891842

<400> 224
aacaacacc taatatattat taataaatta gtatacttga aggcattttt ctgatatcag 60
ttcctcacca ctaagccac ccacacaaag gcagtgggag tctagctctg cattagagtc 120
tgacaactga gcatcagagg acaggttgat aaatgagaga gcgtagtgtc aaatttatcg 180
gacaggagtt cttacagctg cagccatttt taacgaaagt ggttgatga caaaggaaac 240
ccagcaaggc cttgagggca gactggacct atagactatg tgtattgaga gagagagaga 300
gagagagaga gagagagaga gagagagaga gagaggaata aaaaaataa gagaaatatc 360
ttttaaaagca aagctgggca taaagtggct ttccaagggt cagcaaagggt gttcctaaaa 420
gatgaagatc gagttctttg ggggcccagg tgtcaagcca ctgaaacagc aagtcctggg 480
gacttaagga tttcattctc cagcccagag cttagcagca ttaacgggag cacaagttac 540
aagcagtgtg cggtgtccag acgagaacca tacagcgagc gatagagagt g 591

<210> 225
<211> 614
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891872

<400> 225

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gagaacatga tgaactcatt tattactcaa atggttgcatt tccattcaag agcacttaat 60
acagaccatt caagagcact taattgattg aaatttaaaga gaccaattgg catgggactt 120
ttaaaaatac aacttattcc ttttaagtta ttacttaaac tatctagatc ttctacatat 180
taaaatagaa gtgagaaaat agatcttttg aatctagagt ctagagtga ggctaaaaac 240
ctgatatgga attggcatga tcaatccaga ctacggctaa aatgcaagag aacagggtcag 300
gagttgatca aagtttcaaa atttgtcaca tttggtggaa aaataaaaaca ctaaatgcat 360
gtgcctgtga tgatcaaacg gcataatatt cttcagacca aaacatatcc tgaaatcttg 420
aacattcaac ttctgagctc atttctagct cccgaaaggg gggtgcaaaa tccaatggga 480
ttgcatctac agtgaggccg ctctctcact gctgacaaaa tactctgctt tttggcaatg 540
gcaatgataa acaagtagat gatgagaact cccgatgctt tttgagaatc aagggttgct 600
gatcttgaat atct                                     614

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<210> 226

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891884

<400> 226

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ggtacaagaa gcattttccc cccagttccc atccaggaag actgaggtct gaagggtggat 60
cctctttcta tcccatttca ttactgggtg agaacagctc ctaaaatata agtcttggaa 120
cctttgcgaa ttggcttgta aggagtatgt atctgcaaca tgtatggcct gcggcttact 180
caaacatgtc tggttacttg tccttctatc tagtctccac tccttcttga gatgagaggc 240
ctgtgttgct ggaggaaaag tggctggtag catttgcttg attcagtga taaagaaatg 300
tgactgggag ccacagcctt caaaagggtga agctagggtt gctgtgtgtg gagtccatag 360
ccatcctggg ctacatgggt tcaggccagt tgacacagtg agaccagct ttacacaaca 420
ctttattctg caagcacagg tatgataaat gggaagattt tgaatcctgg aactgttgct 480

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<210> 227

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA891944

<400> 227

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cctataataa ctgtgatgat ttattccatc atagagatta agatcacatg tatgtttacat 60
acaatacaga ataattgtga tgatgactat ataatacccc tgtacatata tttctgtatc 120
tgtacatata accagcaaag agaaaatcta catctgtgac ctaagacaca gaattcacac 180
cctgcttctc cagccaggct aacagtgaaga tcacagtcag tttcctgagt gctggggcca 240
ggttagagtc cctgtaacca acacatacaa ccttagaaga gctttaagaa aacacgcttg 300
ctttctcaca gtcaacctac tggagcggga tctgtgctat aaacgtgacc tcaagaatta 360
tttctgaata ccatgtgata tcataaggat gggaaacaaa gcctctgatt tcattgcaga 420
cctttcctgt gagtccatgg aaccacgtta acaaaaagaac gagcaggcag aaggggagtc 480
ttagcagaac ttggttcacc cccaatccca ctgccgtgag acttctcagt tcaacctatc 540
cttaccaca ccatataaag taaaccacc ttttacattt aagtgatgct ttttcataaa 600
gtacc                                     605

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<210> 228

<211> 542
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891950

<400> 228
 ccaaacggtt ccaaatactc aactgagaac tttatattata cgttattaaa aaggaccggc 60
 ttcttctgtt ggacaacaga gcccaaaact cttttccccc aagtccacta ctcacagctt 120
 gactgaacat ttaccaagc cggatcactg tctactgctat tcattcaaaa cagacagaaa 180
 tcctgagtgt gggttctgag aagacagttg tgctgtctt gatggtgaca atttacatcc 240
 atggactctg ctttgctact gagtttctga aggccaaggc tcaggaggac tgccttagca 300
 acaaatgggtt attcctctag tctgaagaca tgaaggtggc cgaggctccg gagagtgcct 360
 ttgtgcttat catccatgat gccaacatgt cccgtgcttc cgttaccacg ctcagcagga 420
 cctcagtggc ttggcataga ttggctccag cacatgatga gtaagaagca ggaagaggcc 480
 tccaagaaag acagcactga gaaaagccag caggacatag cggccgatga aaaaggcatc 540
 ca 542

<210> 229
 <211> 216
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA891965

<400> 229
 agagatccag tttgacgttt tattaggtcc agccctctgc tacctgagca gtttccctcat 60
 catccccagg gatgggcttc tatactcccg cccaaagtgg ttccaatggg ttaggttagtt 120
 aaagagctgg tagagcagca ggcgtttgtc gaaccctgga gcctttggga tcttctgatg 180
 gtaggcagtg aagaatgatc tggggaaccc cccaag 216

<210> 230
 <211> 487
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892027

<220>
 <221> unsure
 <222> (1)..(487)
 <223> n = a or c or g or t

<400> 230
 ggaaatccaa actattttttt aaaacaaaat attattttaa tattatgaat ctctgaagtc 60
 atgagactta tctctccaaa aggggaaggac ccatgggttc tattttttat gcagcatttt 120
 caaatcacaca tgtcaatata tatttcataa actactaaaa aataaaaccc tttatcctct 180
 gaggttattg atgtgtccta ggtctccaac acatctcatt aaacagtaag ttctattcat 240
 cttcatgaat gaggtgggaa ctagactaaa aaataggatt ttaatccctg aggtgtcagt 300
 taaaatgcag aggttgccaa gattttttttt ttcattttaa aattagcttt aaataattag 360
 catggatcat gctatctcaa tcaaaaccac ttcctctaca cggagtcctt tagaaaatta 420
 cattttctgg gttatgggtca acctgatgtc ncagctctcc agctatgaga cttttttttt 480
 ccttttg 487

<210> 231

<211> 433
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892112

<400> 231
 cagggctaag gacctttatt gagcacacgg cccctgatgg tgctgacgga gaaaccttag 60
 gctttccttc ccagcagcct ccgccacagt tcttggtgta gtagtgctg ctccctccgg 120
 gcgccttgca gcacactcct gttctcctgg gctcttcgga tcaggtagga taccacctct 180
 tccaggcagc cataggggat agacttatat accatgtatc cagcttgccc taatgccagg 240
 gagacgtggc cacacatgcc cagaagttgt ccgaagcaga caggcccatc cagaggaatg 300
 cccagctccc acatgctgca gaaaggggtca cattgtcaat ccagagagtg gctacagcgc 360
 ctcgttgctt ggcgaatgga ttcttcattg tgggaagcca catgaggtgg caccggggac 420
 cgtggttgga cac 433

<210> 232
 <211> 443
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892128

<220>
 <221> unsure
 <222> (1)..(443)
 <223> n = a or c or g or t

<400> 232
 agacataatt aatgtttacag taaaaatagg catttactca tatttgtctt gtttttagcca 60
 cttaaatctt tttcatctcc cctcccccta aggttttctc aaagcacatt atcattttac 120
 aaatacagtg ccaaggtcct gagtccactt tgcaagaatc ttcttcacat tcacggaaag 180
 cagttactta gtgcagagtt ctcatctcca cttaactgta cagggtttta tcggtgctga 240
 gacactggcc cacctgctgg ccagtgtctc ccacttcaca cacctaaacc aagctcaaga 300
 caggaaggct gagccgtgaa gagcatcncc acancctctc cactggcccc atagctcttt 360
 cccgcccctc ccagttgtcc tgagaaaaat cagatttgtc acagaaaact gacattccta 420
 cattcatagg cagaagaatt tta 443

<210> 233
 <211> 439
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892146

<400> 233
 acagctatta ggtgctgtcc acttttctgc acagaccctg aaccatgcat caacttattt 60
 tctctgcaac ttacaataac tctctcagtg acttagctta acccttcaag tttctgtaac 120
 tttctcttca tatcttttct ttatcttagc cagattgggtg gggcattttc cagcccctag 180
 gagaccacc cttggagcct gggggcagac ctggagcact ccctaccttc aggggtatga 240
 agagagcagg cagaagttag ggccttctat gcgtgttgga accctttttt tttctggcct 300
 ctagtaggat tccgtctttc ctcggttgta aagaagacct gtaacagtta ctaacaagca 360
 tatcaaagg gatgggtgaga aaacaagaga atcttgagaa tagagtctac cgaagagggc 420
 atacagcatt tagtcacac 439

<210> 234
 <211> 632
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892234

<400> 234
 cggccgccaa aatttttttt tttttttttt tttttttttt taggtacgag gctgacgcca 60
 gataagtttt tattatatatt aaaaaacagt ggagctggaa gtaagggcgg gtcgttgaag 120
 gcgactgaga ggtgaaaggc ctcccgttcc tcagtggcag gatctggacc cactgcctag 180
 gccgggttta atccagccga gatgctggaa agcagagcac acagttgtgc ccatcagggc 240
 aaagagggca agagagctca cagctcctcg ataccgcttg ctagggtctc ccgtgtagta 300
 gccatatgcg taaagaactc gcccaataat ccacgccacg cccaggccag aagctatgcg 360
 cgggtggtta acacctccca cggttaggaa gaataggaag ggaggggtaca cctccaacgt 420
 gttctgggtg gcgcgctgaa tgcagttgaa catatgccca ttctcaggat ctgtgctgta 480
 catgacaggg tactctacct tgtacttctt gcgggctttg cccacgttga tggctaagtg 540
 gagcaccatc acaaagctgg cggcaccagt gagaagcacg aatccatatt ccttagagag 600
 gacagccatc ttggctctg ctcaccttga cg 632

<210> 235
 <211> 637
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892251

<400> 235
 cggccgccat actttttttt tttttttttt tttttttttt taaatcatga acgagttcac 60
 tttgtttaga aacagtgtct accacgtcaa agcctcactt atgtgggaca taaaaataca 120
 ataaaacaca cacaaaaaat tcagccacaa aatataaagt cagtatgctt gcgaaccggg 180
 cctacacatt tctggtgtag cacattttca ttagtattct atgtaaaagg attcagggtt 240
 tggtcacagc aatgggaaaa acacagctag aaacagtgtg tacactgagt tgatttatgt 300
 ctgcctatcc cacataaaca catctgctct tacgatctct agctggacac aaaagtccct 360
 cccaagagtc gggctgcgtg aacgtggggc tcaagtggag acaggaatga atctgatgga 420
 tttggaagat ttgggcgagt ccttccacat cccagtgtct ttcgttgggc tccggttgtt 480
 agaataagaa gtctgtcttc ggctcatgct atcggagtca tccttggcga atttctgcgc 540
 catgctgtgg cagcatggga aactttggac gcagcttgc aggagatggc cactgaaaaa 600
 catgtatata cacgggttgc agcagctgtt caaggaa 637

<210> 236
 <211> 606
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892345

<400> 236
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 gttcctagaa tcacagtctt ttaatccac tagaatcctg atttcacatt ggcaaacgcc 120
 cagtgttttc tctgattggg tttcataagc accagtaata aagagtaata aaattaataa 180
 aaagtgttca tcttaaagtc ctttgaatgg acagtgcaaa tcattaatct atcaaaccct 240
 ggtgtgtggg agacaatgaa aagggtttta cgaagatact gatctagatt ttggtgattc 300
 tgaagtgcag tcttggctat ctttatcctg gaaggagcag gatgccagag cagttctgcc 360
 agctacacct cggttgttgg tctttctcaa gatttcctac catctttctg aagcctggtt 420

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ctggtagggt ctgtgagtag caatgggtcc tgtataatgg ttgctgggta atttttaccc 480
agtagttcaa cctccacttg ttgtcccaact tcactgagct caactgggac ataagcaaaa 540
gcaggctctt ctggatgctg taactgtagc ttccacatgt tgtgttgcca atcagcttgc 600
ccttgt                                     606
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<210> 237
 <211> 719
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892373

<220>
 <221> unsure
 <222> (1)..(719)
 <223> n = a or c or g or t

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aactgagatg actagggaaa cattctaaac ccacccaac ctagctaaag ttacataatg 180
ttaggactca agtgccaaat tagatattac ccacttaatc tacgagtga aaagagactc 240
caaaatttat cctatttagt ataacaactt ttacatgaaa tatatagcaa ttgtatctc 300
agaaagcaat acggcaactc ttaggcgttt cctttatgca gtgactagaa aatccttggt 360
cagctaggca gctctgcgac accagtaagc tgctcagggc tagcatagaa cagcttgata 420
gagagctaac ctctcagggt tcagaaggca gcaataattc tattttgggt tttattctaa 480
atgcttactg tagttaaggc gacaactgaa gcacattaag tgaaggtagt tagaatttag 540
tgacaatcat tagtctcttg ccacctacac agaactgtat aatgcttttg tggaatggaa 600
gtgttgatta actggaattt tacacactca cacacaaact taanaagtaa cgatcaaagg 660
caatcatcct acagggtacta tgctgatgta ctacaatcca catatgccac agaactgaa 719
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<210> 238
 <211> 591
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA892395

<220>
 <221> unsure
 <222> (1)..(591)
 <223> n = a or c or g or t

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<400> 238
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catccttccc ttccgagctg ctttgcctag tagtggctgt atgcatggaa gactgacctt 120
ccatgtaaag cccgttcttc tcttgatggt atgttctgga acacggggaa ctggaggtgt 180
tcggagacta ctgggtgacg tgctcactac cgcacttcaa cagctgattc tgcttttctc 240
ctgtgtttat gattcgcata tgtggtgttt tcaaaagttc aatcaaattg gatctaattt 300
ccagggtgta ctgaagcctt tcagggtctc aaccaaataa tttaggacaa ctggagcctg 360
gctggtagggt gacggtatct agtaggtgta ggaggctttg aagagtgact gcgtacaatc 420
agcgctgac gagcccggtg gaacatactg tccttgggct gcctggcagt tggccacagc 480
ccgcttcctg aaagcttctt gngttgcctt cttgtttgca gccttgccgc cccaagcagc 540
caatgcactg gcctggagggt ctctgcccgt tgaaggctt agcctcgtgc c 591
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<210> 239

<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA892425

<220>
<221> unsure
<222> (1)..(498)
<223> n = a or c or g or t

<400> 239
gaactctaac aatgtgatag gtgccacaca aaacattaga cacagtatct gcccggtggg 60
cgtacaatct aatctaagga cacagatcat tttttgaatg ttgccatgag ctttctgttc 120
atgagaatga ggtattaagc gcaccgttca gtgcaggaaa ggacccacac aatcactgac 180
ctttcaggac ggttttgccta cataagtaca accaactgct catgtttctt attcttggga 240
attatggata gtgttttttcg ttcattttat gatgagcaca acaatctata aggacagaat 300
cactaaaccc acaaatctga caaaaccagg gttcaaaact ggctcttagt ccaaaataaa 360
attgttgtat gttcagaaaa tcagctaaag taggacctag agaaagtgtc aggagccatt 420
tttgttcaga gtccccctac tgtccanaca gtctctctcc tcaaagcagc tttcaaagtg 480
ccctttatct caagtctt 498

<210> 240
<211> 583
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA892506

<400> 240
accagaaaat aaagccggtt tattattttc gtcttatcca ccatatggcc tgaggggttg 60
ggtgggagca gagtaaatgg ctggccccag atgaaggctc tggagtcttc tacttggcct 120
gaacagtctc ctccagcctg tccaggcgct cttgaagctt ttgcaactatg gcgttgagat 180
tcctcacatc ctctccagc cgtgacacgg tgtccgagct aagagtgtca ctgggctccg 240
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ggggcacgta gccatccttg agggaaatga ggagggggcc agcatcacga ccgctcagcc 360
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acaggtccga ctttctaggc actgtcatgg caataggctc acatttccgc tcatgaagct 480
tatagaatct ggcaatctcg cacttattca cttccaggcc acgtttgggc atgtagccca 540
taccacgttg agactccttg gaactgaaca tggaaagata atg 583

<210> 241
<211> 547
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA892520

<400> 241
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ttcctacatg gaggcctcaa ttagacaaga gagaggctgg gtccctcccc tcacactcct 120
tctgacagtg gctggagtaa cagctctctc taatccaagc tcagaagcag caggtgaccc 180
ccacctagcc tcaaagggtc ccactttggc tccagaagcc cctgtccttt taaccagccc 240
agtaattccc ctaccgagc tccttctccc ccaccagtgt aaacagagtt tggggctgaa 300
caacagagct ctgggaaggc aggagcctcc tagatagcaa agggaatgtg cttggagttt 360

cacttcgggtc ccagaatgag acccagcagt gtctcccaga actcgggctg atccagtata 420
 ctgcctcttc attctccacc actgacagag ataggccagg cccagacca cagtaaaaac 480
 aattgatccc cagaggtttag agctactccc taccctcgac cctggcaca tacacagatt 540
 tttggca 547

<210> 242

<211> 524

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892553

<400> 242

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 gaacgtccaa ctgtggtggc aacatcagtt acattgggaa agcaagcctc gagacagtgc 120
 aatcaatgag ccccgccag ggatggggct ggcttgaggt tctcaacaag ccagtcttct 180
 gtgctcactt acacttcaga cacagaaatc aactcagctt tgatgtatcc agttctctta 240
 gggtcacatga gctccatcgg ttctggtgct tcttttggcc tggagtagta cttcccgaag 300
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 gcagccatga ctttgtaatt gcgaataata tctgggaaag taacagctga aagttctttc 420
 ttcgtgtagg gctcaacagc atggaagtcg gggtcacctc cattttggga ccgttccacc 480
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<210> 243

<211> 465

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892561

<400> 243

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 attgaactca ggacctctgg aagagtagtc agtctcttaa ccgctgagcc atgtcttcag 180
 ccttttacgg gaaaggtaaa tggctccttt gttaaactctg ggcagtcgac cacagagacc 240
 tggacatgag caaagttgtc ctttagcccc ttctgcaaaa cttctgcgag ctccctccaga 300
 cttggcacgt ggaaagaaaa ctcatgtcaa gccattctct ctccctctcag caactcagac 360
 acagcagctg ttggctgacc tccaccagag ttcacagggc accagcgtga acagtccctg 420
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<210> 244

<211> 658

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892598

<400> 244

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 gctatatata atctgtggta aagtcataagg catcgtcttc ttcactcatt ttatccaaga 180
 taaaggatct gtcagatggt ttacttgctg ttgattgccc aggtgacatc tccctgggtc 240
 ctctctacag agtcacatct gagatctctg catttttttc accagtaaca tgttcttgat 300
 catcaccatc ctggttggtc tctgtctggt ttggtgactc ttcggggatg tctttttctt 360
 ctagtattcc atttgtcagg cccgaagacc ggaaaaggat tttattagtt aaatgagggc 420

ccttgaggac ttgtatgctg tgtgcattat tcttttctag ttcttctaga tttaaagcccc 480
tcttcatgat tgctgtaata ttctcattaa aatgaggaga atgattccag gatgcagggg 540
gatggcagta gtaacctaata gaggcacctg tccactcaga ccatagcagc ttagcagcac 600
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<210> 245

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892602

<400> 245

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gtctatggag ttgtgcaaca aggaggtggc tcaatctccc tcacaaggga gactggctgt 180
acggggtagg gcaaggttca gtacaaggtc aagttccac tacacaaatg ctttcatggg 240
tggcctccag ccccataagg attcccagca gagagaccac tccagcactg cctgactgaa 300
agctaccag ggatggaggc atctttgata ctgggaagat tctcaatgcc aaggacacac 360
atctgtgctc ctggaaacat ggtcttacag cccagaagga tcttagacca gtgcctctgg 420
actgcagtct gttcctctat ccacagtttg cctcttccct ggggtctgaa ttgagc 476

<210> 246

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892666

<400> 246

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tcagccatct ctgcagctcc ggagaagaag gctctgacag gacagggccc aaaaccctgc 180
ttgtccttca gtggccctag gaatgcttag gcagactgag gttaggggac agaaggggaa 240
cctgaattct catagctcaa gacctgggta aaacttctgc gggggtagtc tgaggtaaaa 300
gagaaggcag gaaaacagtt ctgtcaagga aaggaaggct tgaagaaaac agacacaatg 360
gagccaggac ggagaggtgg agcctatgaa gtcaggagag tccagaggac cacttctcta 420
ccaggagcag accttagtga tgacagagaa cagagctggg cgtagacac agcctacagc 480
cagctct 487

<210> 247

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892821

<400> 247

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gcagaaaagc cctggcgtct tgagtcacga cagtctatct gaagtagttg ggacactcgt 180
gggcgaccac gttccaggct tgggttaaagg cctccacgac agcgggctcc aggggacctt 240
cctcagttgc gcceaagttc tgctccagct gctccaggct ggacatgccc aagatgactg 300
cgtccccctg ggtgccctgg agctgtgagt gatggtacat ccagcgcagg gcagccgagg 360
tcagtctggg ggcactgggtg ccataggtgg tcttcagggc cttttctacc agggcaatgg 420

cctcaaagtg gtgttccttc cagaagcggg tctgttaggt ctcagaccag ctattcccaa 480
agaagcggcc ctcgggctgt ttc 503

<210> 248

<211> 644

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892851

<400> 248

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atactgtaaa caatgggtta ttccctaaga caaatgcata cgtgattctc agcaatcatt 180
ggtttgatta ttagtaggtt acaagggtcac atctctgtgg aatgtcagtg accgctgtag 240
tgtgacaggc ttcagcgcac cattgcacac actgcttcag aacagtcccc accgggtctg 300
gacccaggac gcaaagcacc ccctctgctt gaaacggcag ctctggaagg tctgcgtcac 360
agctccaggc ctctcgtctc agcactctat gggcacgtgt gatgacgtgt acacacgcac 420
gactaaaaag tttacctctc gtaaacaaga gcaacattac cgtcaactct cctgcatatt 480
taagtagtaa agtctacgta tttgtaaaca acaaaaacac acaaactctat ttttaaaaac 540
ttccatcagc tcgtaattcc tctgtgatct aagttagtcc acactgaatt tctgaaaggc 600
gcatgtatta ccttaggtta taaagctctg caagggtgct ttca 644

<210> 249

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892861

<400> 249

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tatactttat tgaaaagaaa aaaatatctg gtaagaagtt tggcacgggc ttctgctggg 120
acctgtgtga aatcccagga cttgtaggtc ggggctgcct tcgtgagggg tgtcaatgca 180
gcccaagaag tgggtaaagt aggaagtggg ggtcaaagaa aggcaatcaa gaggtctgct 240
cacagggggc ttttcccacg ttcattgcact gtcaggctgt atcctgggac agcgggggagc 300
ctcggagagt taatgagaaa cagaattgtc actttggcga ccaatgtcag aaaacaggtt 360
cttggtcaag cgtaggtac tagcgaattc tgaccctgag acttgaggtg tctactgtctt 420
taaactgccg ggcattggag gaagtgtcca aagatgggac ttatagagag aagtgggtccc 480
ggcttcctgt agtctccatc tcaccagccc caggc 515

<210> 250

<211> 533

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892888

<220>

<221> unsure

<222> (1) .. (533)

<223> n = a or c or g or t

<400> 250

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tggctggaag gacacacaag ggcgagagag agagagagag agagagagag agagagagag 240
agaatgaatg aatgaataaa tgaatgaata ggggtcctaa aagggttggg ttgggtaagt 300
ccagggcctt gcagtctagt tttctgcctc aagagagcag gaagaaagcc tcaactgtgga 360
gaaaggctga agctgattaa tgatcacccc ggccgtggca gcggtgctga gactctctgc 420
tttacctgac cctccttan aagtactggg gtgggttctg gctgcacatg gggagatcag 480
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<210> 251

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892916

<400> 251

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cattagcaca aacattacat caacagttcg ctaatcacat ctgtgggtct aaaggaatca 120
ggccgtaaaa gggcatctct aaaacacccc tgggcaggtc caaactcgct gggtcaccca 180
attacagtgg agaaggcagt cacagaaaga aacccaatga aatcctcctg gccactaaat 240
gggagtcctg aaaaccctct ggcattgaaga gacttgtaga gagggtggga acaccctttt 300
actatggagg aaaaccagga gtccagggtat tctcacacat ctgacatggc ccttgagaac 360
aagtttcagc ttgcataatc cctgcaccaa cacatgcatt accactaaaa ggagtcctcg 420
tgggtcctac ccgatgccc aggggtctcc cacaggtagg ttcattcatc cgggttttgc 480
aagggccgga accaaaccgg gcgatgggtct ctatttctcc attctccagt ttacaaactc 540
g 541

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<210> 252

<211> 603

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892918

<400> 252

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aactattagt aaaaaaatac actttagggc acagcattgt atcacaaatt ttacagaagg 180
gatactttgc aagaatttaa tcaaactaga gtaactgtat cttttaaatg cagcacttaa 240
aaatgtaaca actctgtgca ttctttttct taaaaaaatg accttatatg tgtagaaatg 300
ctgctttatt gctgcagagg tcaaagttca aggctcaaga ggtacaggag agaatacaaaa 360
ggtagcctta gaaactcggg tctgtttatg tataaaaaagg taaagtttat aaaagttaat 420
ttacaaacca agaacaaaag tggatatgcac gcattatgta catgcgtcct gaacacatca 480
aacatctcag atgcatagcc caaagaacag aagaccacca accactctcc cttgtcaaaa 540
aaaaatattt taagtcacac cattaatttc ttccagggtga ttacacatt tccgaaacca 600
tca 603

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<210> 253

<211> 441

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892950

<400> 253
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acgccaggta cttgaccagg aagtctctca gctggatat gtgcatcatc tcttcatcg 180
tggtgtctcg gcttcgaagc tggatcagcc cactttccaa ggtgggttca gtgattagaa 240
ccgtgaagag gatactcatc tcacgtact ttgaatagag ttgctctaag gaggactgtg 300
cagtttccaa ataaccaggc cacacagcaa tcccatttcc tagtaactca ttgagtagcc 360
cttggaacac ctgtcggagt tccacgggtg ggcctttccc cacatctaga gccaccttaa 420
taggggctaa acaaggggtga a 441

<210> 254
<211> 496
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA892993

<400> 254
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ggcgtggggg aaggggctgt tggactaccc caccctacc ccggcgctgc ttgggttagcg 120
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cgctgtggga cagagggggg gatgaagacc tcgagctgag ccatactctc tcttcacccg 480
ttcctccctc cctgca 496

<210> 255
<211> 482
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA893000

<400> 255
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caaacagtag catctgaaga ccaccactcc tggagggttc cccacaccaa gtcagcctag 180
tagtgactac agtagattag gagctaggag tcagaagaac aatgcttgag gttataccaa 240
cggggggttc cttactcctt tgccagctgc acattggtag gctttgctcc aatgggggatc 300
ccatatttgt gcaaagtgtt catcaaaaac tccctcatgt cgttggtgta ggaatcaaag 360
tcaaatacat tccgaaccac actggagagg ccttcagtag ggaatttctc taagtgtttg 420
acaatgttga caacttctct ggtagaataa ggatagttga taatcccttg gtcagccaat 480
tt 482

<210> 256
<211> 367
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA893032

<400> 256
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 ggtctcaggg tttgttagct tgccctattg ctttcttagc cagcagttct gagcaactct 180
 caagctttgt taccatctga ggtgcatctt ctttctgtgt acttctattt ctaactcatt 240
 gttatgtctgt tactctctgg tctcccatgt agagtactca ggaggatttt cttgatcttt 300
 ccgctccatt gagaacatct ttaattgtat gaaacatcgc aggttgtctt tatctacaga 360
 gtaaagg 367

<210> 257

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893080

<400> 257

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 ctcaagatga cagaaccctt tgcagataaa attaaaattg aatctgagtg agaaatgacc 180
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 gacaggggtga gctgtgacct ctgggaacaa ggcattgagac ctctgtctggg gaccatcagg 300
 ccagggaggc aggtgggcag tggcaggctg agggcagagg agaagggcag ggcagcatgg 360
 gggaggggtg ttgtctgtac gtgcacacgg gaggccatgg gtggagacga aatcaacttc 420
 ctat 424

<210> 258

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893082

<220>

<221> unsure

<222> (1) .. (479)

<223> n = a or c or g or t

<400> 258

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 aacagttttg cgattttttt tttgtattat atgcttgagc gttatatctt agtgcaattc 240
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 agatataagc agggggtgtt ccccttttta atactttggt tttcaatata gtccacggta 360
 tagcaagaac tacacatacc caacttatat ttaagttgca agcacatgct tcagaagcta 420
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<210> 259

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893189

<400> 259

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tgattagaca ctttaagacct cgatttttttg ctttaactaga aatttacacc accagaagtt 120
 cctgattaaa atacagaaat ctataaagct ggcgcaggac gtaaacttga ttggttcctc 180
 ccagaggccc actggtcgga ccgctagcca cgagtcccgg ggctctcagc gcagtgtgac 240
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 ccccatcttc actgctacag cgaagccctg aagcatctca tcgcagccaa tcccctgcat 360
 atggatgcca accaccttct cctctttgtt ggacaaaacc atcttcatca cgc 413

<210> 260

<211> 643

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893242

<400> 260

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 ttttttctaa gatttttgtt tcaggacctg aattaagaaa aatcaaaaaca aaacaaaaca 120
 gaaaaattaa gagatgattt tttctttctc ttgaaagttt aagagagatt ctcagttcat 180
 cttttcatga ctggaacttt ctaagacaaa ccacaaagcc atataccaag cagaaatcag 240
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 gtggctcatg gtttaatacct caggctctgt ctgagaaaag atgccgatga actgctctga 360
 gcaaggtttg aaacccttct ggatcagcgc cgagcctatg cactcagcca tttctgcaac 420
 ctgtttgtaa gaaatccact catatggctg gtttggtctt ctagaacctt aacaagggcc 480
 atcatttgac acctgaatcc cctcttgtaa gccatcgtac atcgttctga catcgctgta 540
 gtagtacagc aagagcttgt cgctctcaag gactgctgat cttcggacac cctcagtagt 600
 acccgttact ttcacagact gcatggacag atcacatggg ggc 643

<210> 261

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893246

<400> 261

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 aaaagtaggc atagagttga gtccacagta acacaatggc tgcacagcct cagacaacag 120
 tgccaagggt tacaagtggg taggaaggaa ggctgctcag catttgacct agaccatgaa 180
 tgtttatagt aagtatttcc taaagtttta aacacatcag tcaaactagt gtaaatagga 240
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 gttgctgaat tatgatgcag gaaaaatggt ctcacacagc attctgataa atcttacagc 360
 cagatgaact cttctgcca aataaatacc cgcacatacc gaacctgcac actgagttaa 420
 atgatgctca gcctgaaggg agcagcgggc agctactcga acagcaggtc ctcgtccttc 480
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<210> 262

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893436

<400> 262

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 aaatccagct accaagaggt cctctcccag agtgccggtc gcctccgga cattctcccc 180
 tctccctcag cattcgaacc ctcttactaa gagaggtagc ttgtgcccag gctctattcc 240
 agtagagctg gagaatttat gacacactaa aggaagccac cagaccgggc ttccgggcaa 300
 cccacttctg tcccgttcct ccttttctct tgcttagaac acaaaagtga ccagcaggcc 360
 actttgtggt ctcgtaaccc aatattcaaa gccatcgtgc ttctgatctg aagtgttttc 420
 tgaagggtgt ggtgttcagc tgataaggcc tttcgttaact gattggatca ctatgcaatg 480
 aaggaagggc tcaggcttcc tcagcaagtt aa 512

<210> 263

<211> 466

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893453

<400> 263

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 ttaggttatt agttaccatg tgaaatattt tcattgtcgt aacacaccag agaaatagaa 240
 taaaaatggg ggacagtac actttacacc tacgagaatg gctaaagtga aaagaattca 300
 atgctggcct cctgcccccc gcagatgtac aatgtttaca cctgacacac acaggtcacc 360
 agagtctggc ttcttttcat gcaatataaa tacctgcttt cccaccacc aacaaccaac 420
 cagcaaatca gtgcccgtat ctacttaaag aaagttaatg ggtgct 466

<210> 264

<211> 410

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893454

<400> 264

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 ttagaagatg catttggtta cagcatggat gatctctggt gtgacatttt ctgacgtctc 180
 cataagacac tccccatgag tttctattta attcgcttct aagaaacttt ggaaatttca 240
 aaataagtggt atggtcaaga ataaaaaaat atgactcttt ttaagctgtg tgtataatgt 300
 gcctggtaag ttagagggaa atgagttttg gaaagcaggg tttatgtggt ataaaaatac 360
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<210> 265

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA893485

<400> 265

aaaacataac tgagctaata tttttcaaag gattgtaaga agacaatgac ttaaaaagaa 60
 aataaatttt ctgttatact aatacatagt gaacttatca agctactgta atactgtaaa 120
 tagtcatgct tgtcaggatc tttctggaag gacatggcca agcatgagag ggtggggggc 180
 atccatgcag tcattctagg ttagttgagg agtaggaaat tgagagtact tctcgttttg 240
 atgcgaaggc ttctcaaata atgaagatca ttacaaggac ggccgtaagt gagatgaatg 300

agcctataga ggagactgta tttcatgtgg tgtaagcatc tggataatca gagtaacgac 360
gaggtatccc cgctaatacct aggaagtgtt gagggaaaaa tgttatgttt acacctacaa 420
atataatggc aaag 434

<210> 266
<211> 656
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA893495

<400> 266
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ggagaccctg agaagactgg ggaaaggctt ccatccctca aagtcagatg gcaccaaggc 180
ttctcaggac acgttcttag gctggattga ccacttggct catcatcagg ctgctccatg 240
tgaacttgct aaagagcagg aggatgaagg gcttggtgaa cttgatgtca agtgggttcag 300
agcgcaggtg taggggagcc ccgttggttag aattaggcaa cacattccct tcatccagtt 360
gtagcatggc cttgtggacc atcgtaaatg tcaaggggaa atctttgggt ttgcctgaga 420
aatctgattg gttgggtgagc aagtccttaa tggtcaggtc ttccagcacg tctttaaggt 480
cataggtatc agacatggag aatttcggga tgtataggtt cacctgcctt ggggtcataa 540
gcttgcccca cctatcaatt gtgtcccgac taagtgcagc gatgacagtg tccatctggc 600
cctggtccgg aagaatgaag aaggcagttc catttccac atagtccac tgtatc 656

<210> 267
<211> 630
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA893552

<400> 267
cagagatgcc atttggttta atcagcgtgg tccccaggga ggtatctccc actttccagt 60
ccatctagcc ccacgcctcc ctctaccact cttgggagtc aggggccctt tccccccca 120
agccatgggt gcagagttat tcatatccag gcctaccag tcacgttctc ctgctggtaa 180
cagaccacct aatcctaggt ctgctatgct gtgggggtga ccaccttccc catgaagagg 240
atatcctggg agctgggtgga atacaatatc accaagaagg gccgggtgaa tataaggtaa 300
cgtttcttgg gctgggcaga gaaaaagggt gaaaaggagc cgggtggctgc tgcctcctt 360
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tcctttttgc tgatatttga gaagttggca tttgggggtga acagatcctg gaagcccaag 480
tcaggcaaaa tctcatccaa ttcataggaa tttgaaatgg agaatttagg gagctgcaat 540
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ggggacagca cctgctccac ctcatccaac 630

<210> 268
<211> 485
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA893667

<400> 268
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cgagggtgag gggaaggata gaggtcaatt cattcttctc tcagactcgc tctcatccac 120
tgggtgtcct cggggaggac cgttttctgg aagccagtgc agaagggtgc cctgttctct 180

ctggtgtccc aagctcagct ctgtccagtg tccgaggagc ctccctcccag gaacaggggc 240
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 tgccgctcca tctcaccgtg gcagcagcgt gtacccctctg agggcgggct ggtcagctgg 360
 ggcatctggg tcaagtccagg caggcccatc agaagccaaa catcatgtcg gcaatttgga 420
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 ttttg 485

<210> 269

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA894027

<400> 269

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 aaagtttgag ttctggaact gaaggggggtg gggttttgca agcaggaaga acaaggcagt 120
 taaggaaatc ttctcagaac atctggtaca gaacattctt tggttatggg atgggggtaca 180
 gctaaattct gagaagcaga cattggaacg taagttttac agtaaacaga gcctcgaaac 240
 gactcctggc cttcaaattgg acttgaactg gtttctgact catctgtctt atgtgttcct 300
 gtcacataag cctcttgga gctaacattt ctggctattg taatggctac tagtggcaag 360
 cattttagca ttctttattt gtccgtagac aagccttggtg aagcgct 407

<210> 270

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA894233

<220>

<221> unsure

<222> (1) .. (511)

<223> n = a or c or g or t

<400> 270

aacatagccc tttattgtga tattcccctc ctcttggaag cctgcgttcc ctgcagatag 60
 attcatccag agtattgtaa agaaatcaca caaagcctgt cactggagag tcttggcacg 120
 ctctgtgaag ctctgacatg gccagcttcc tgcagacagt tgatcctgcc ccaacaaagg 180
 gtgagcttgc tgggtggcac ccacgacagc agagccaggg gcagagctgc cgggtgagtgg 240
 tcagtctctg ggagagagag tcaagtctca actccagtgt ggaacagacc ttgggtcacag 300
 tccaaatggg gatggactgg aaatcccacg gaggtctgta tctcaaggac tcttggccacc 360
 cataaccaga ggccaaggcc aaaagcaagc agaaagaagc aggggtggtaa cctggaaatc 420
 actcgaggac tcagttgccc ctctggtctc tggagatcaa ngcagcaatg ctctccccca 480
 gccacaggtc tctatcctgg gattcctaaa g 511

<210> 271

<211> 473

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899045

<400> 271

tttttttttt ttattttaaag tttgatatgt ttattcagaa aagtgattca actgcaggag 60

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catgatcttt tcagaggaaa tccaaaatct ttttgtcagc aatcctgttg attccaactt 120
ttatcatcct gatgagattc tcttgtctga agctcttcat gcattcaggt acttggcatg 180
atgcctgatg tggtcagtga tgaagggtgc gatgaagtag tagctatgat cataaccctc 240
ctctgttacg taagagtaca ttctgtagtt agtgttccaa ggatcctcag tggcggttcac 300
aaaaaacccc gcaccagtgc cgaagtccca gctgtcatct tctcctttaa tattgcagcc 360
acgggggctg gtatcaggag caatgaccac aaggccatgt tctgaggcag cttgttgaca 420
gccagacttt gatatgaaat tttgttctgt gcaagttaaa ccagacagcc agt 473
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<210> 272

<211> 477

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA899113

<400> 272

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ttcagaatat ataagtattt ctcatacaga aataagcatt ctgcattctt tggtagagaa 120
atcacactat acatgttgtg tgatcttttt tcttttttct tttttttgga gctggggact 180
gaaccagggg ccttcgcgtt gctaggcaag cgctctacca ctgagctaaa tccccaaccc 240
catgttgtgt gatcttaaag aaataaaatc actttgacta tgtcaaaact agtctttgcc 300
catccatttg tcccctacca cagctcccag tgagagttct agtcacagca atgtatcgac 360
acagacatca catcaaagat acttcaaact cctatgtatc aaagtagtac atggcttgaa 420
gacagatggc actaaatata taaaacacag tacagataaa ctggaacctt aacacta 477
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<210> 273

<211> 536

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA899195

<400> 273

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gacgtgtatc ggtagccatg aggaaatctt ccagagctca gtctctcact gtcgcccagc 180
tgacaagcac aagctgtggg ctccatccgt agtccctgcat aaagcaagca ggacacacac 240
ctgtgaccct agtactcggc aggcagagct gggaggaggg tcaggagttc aatgtcagcc 300
tgggctacaa gagaccctat tctcacagaa gaaaaacaca gagcatgttc tagcaaaggc 360
taaggcacgt ctcccacaag tggaaagctg gaacatcagt gtctcggcga cagggtattct 420
cctaattcca ttagtgaagg gcgtctcaag tcagctgggtc accggagcca tgggtctctg 480
acacagtgtc ttcgtttccc actatttcat tgagcttcac tgggtctgtat ttttca 536
```

<210> 274

<211> 472

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA899256

<400> 274

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tttttttttt tttttttcaa aaacttcatc atcatctttg tctttctcaa attctttctg 60
acaccgattt aacaacagtt ttcgaaaatt cacagtcact gttggctttt ctgtagtggg 120
cacttttcagc gccatgaggc agcggcacat gttggcataa gccacagaga agttggggctc 180
tgaaatgggt ttctcgaaga tgagggtcaat gactcctttg aggcgttcct ccgtgtcaat 240
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ggccagctgt gtcacctgct tcatcagctg ctgaaacatc tgggggtgtca gcttattcaa 300
 gatggagcgt acccttcgga acaggtcctg ggtcttgctt ccgtcagcat cctcctcccc 360
 tcgatcctta tcagcggctg tccgtttgct actgggtttc cacgccttct ctgctttggt 420
 cagttttatg tcttcagtca ttatcactga agaaatgatc ttgcgagttt cc 472

<210> 275

<211> 343

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899498

<400> 275

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 actggctggg tttcttagct tctcacaccc aagccctaag catgatgtta ccctagatct 120
 taaaggccaa ggagagcccg tcatccaggg gcaggaggct aatgtagacc ctggcggtccc 180
 gcaggatgcg ctcgtttagg ttccgcacac attcaacagc cttgttctgc gtccaccacc 240
 gctatgtcga aggttccggc ctgcgccgcc gccaggagct catccaaagt ctgcagggcg 300
 ggctgcagcc gaaggtcgat cttctgtctc acttctgcct gct 343

<210> 276

<211> 333

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899635

<400> 276

tttttttttt ttttttcctg atcagctgat gaagagacta gcagctcgct gctttgccgg 60
 cttgttaatt ttatccccac taactgtgat ttccgatagc cggctctgctg atagtggtaa 120
 ggccatcgaa gacggaaatt tggaagaaat ggaagaggag gtacggctga agaagaggaa 180
 aagacgaaga aacgtggata aagatcccgt gaaggaagat gtggaaaaag caaagaaaag 240
 aagaggccgc cccccagctg agaagttgtc accaaatccc cccaaactga cgaagcagat 300
 gaacgccatc attgatactg tgataaacta caa 333

<210> 277

<211> 470

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899721

<400> 277

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 attttttaaat tacatgttat ttgtgtgtgc atgtgcagggt gtgtgcgtgt gttggaggac 180
 aacttgctcag agttggttct ctcctaccat gtagatcctg ggggaaagac aatctcaagc 240
 tgtcaggctg ggcagaaagc accactatca ctgagccatc tcaccagggtc aataggcaca 300
 gttttataag gaagttttta tttctttggt gtcttatagc actggagaat gaattcaggg 360
 cactatagaa gaaagtcaaa tgcattgcc aagctata tcctcagctc ctcacaggca 420
 cttaattcat tatattaaga aaaaaaaggg ggggttgagg atttagctca 470

<210> 278

<211> 344

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899797

<400> 278

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tttttttttt ttttttttaga atggaaaaag agataaattc atctttatct gaagataaca 60
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gggcataaag cataactcaaa aaattaactg ggggttgagg tttagctcag tggtagagcg 180
cttgccctagc aaacgcaagg ctctgggttc ggtccccagc tccgaaaaag aaaaaaaaaa 240
aggaaaagga aaaaaattaa ctatatctct atatgttagc acttgaaaac tcaacatagc 300
caggcactgt ggctcacgct tagaataata gactaagaa agct 344

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<210> 279

<211> 426

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899847

<220>

<221> unsure

<222> (1)..(426)

<223> n = a or c or g or t

<400> 279

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cttacagtga acttttgaga tcacacagat agacaggtag acggatagac acacacacac 180
acacacacac atacaaacac acacacacat acaaatgtgc atacaagaac tataaactgt 240
taatcaaaat tatgaatgat aaggattaag caatttatat attgggaaat ggagganggg 300
aagggcagga aggagtgatt agagaaggct caatgaaggg gatgacggtg agcaagttct 360
ccaagcatgg ggatgaaatg gcttccaggt cagcataaca gcttgaacct aagtaatatg 420
gtggaa 426

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<210> 280

<211> 351

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA899964

<400> 280

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acatcggttt ctttagtaat tctaagctga tacagggtcc ccactaggag tacacatggg 120
gagtgactgg gcgcgcggtg acagtgacaa accagtgagc cactgtgac catagaaagt 180
tacattagca atcaggagag aaaggggaagt gtgaggtggc ccataggcaa gatgtgagca 240
gagcacctgg acccttcctt ccctacatgc agtgcttggg ccctgctgac gggcacagtg 300
accttatgac ctatagtaag tggccagcct ctgactgcta tgcattggtca g 351

```

<210> 281

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900009

<400> 281

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aggaaaaaaa gaatcacaca tacagttatt ttaaaaagtg aagggttaac ttgatcggtc 120
ttgaacacat ttaaacgtgt aggccttgct tactcaatct tcagagtgcac acagccagaa 180
tagatatcag cccattcag tgaggcctta acgcgctggg cactttgcac agaatacaac 240
tccaccatag cctggactcc attcttccgg aaaatgacaa ttctctggac agggccacaa 300
ggattacaga tagtgtaaag aacatccgtg gttatggagt agatgggggt caggatggta 360
aacagaagca cactgttgac gctccgggag tcatcagagt caccggggcg agagatcttc 420
tggtctggtg aataattgac aaaagcaagg tgaccagcaa ttagatctg gttgtctgca 480
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<210> 282

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900290

<400> 282

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agacattaag ctattttacca tcttaccaca ctggtcagtt attttggttg gaagaggctt 120
caacaattgg aagagaactc cagggtatct ttttgactct tacatttttt tttagaaaaat 180
ttgaacccaa tcatctgggt gtcttcggga tttttttcga gagagggtct tgatatacag 240
cccaagctgg cctccaagac agacttcctt gtctcagctg agtggtggga tcacacctgg 300
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gcacattgca gaagaagtga tggagtaatc ttcacatcta ccaatgtcat cacaacagaa 420
aaggcacaaa taccgacag tgactacagt ggaaactaga accgaacgct acagaatctc 480
tgaaacacaa tga                                     493
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<210> 283

<211> 527

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900506

<400> 283

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acatgggttt taaacacagt gaggcgtatg catctgagct ccgttggtca caacacagaa 180
atgctgccgt aactttgctg ccatcaggat tctgcgccgc aatgggttttt gggggtaggt 240
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gccagtctca gcaaagcgcg gactggcatt tttaggtgtc tgaacctgaa taggagttca 360
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tggtagacca tgaatcaggc caccatgttt agctgagact tctcaacagg ctgcccacta 480
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<210> 284

<211> 274

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA900548

<400> 284
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 gctcatcatc tggggtgagt tactgtgacc tcccttaaaa tcttggttct tcacaacaag 180
 tcgggcaatg gttttcgaaa ccggaccgtt aagcttctca tggatcatca aggtgttcca 240
 ttaaaccatgc actgtaaaaa tgacgttttc tcgg 274

<210> 285
 <211> 406
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900553

<220>
 <221> unsure
 <222> (1) .. (406)
 <223> n = a or c or g or t

<400> 285
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 cctagtggct gaggagacaa agtgaggggc tcccacagta cctggactag gaccgagaca 180
 ttcttgccag cccaaggaga tacaggagct tcagaaagag gctcctcatg gagctgacca 240
 ggagctcaag gttccaataa cacatgtgag tgcggagctg ggaacacatc ttccattgga 300
 ctgtcctggg gcttgtcttg tcaactcaagg caagtggagg tcagaaattg aactcangg 360
 caccagagat aaaagacatc tgaggccatg gagaacaaag atgctt 406

<210> 286
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900580

<400> 286
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 gagtccttta cggactaact gggagggtta gaattcccag ttgcggcgca cttgggtttc 180
 tttaatgtgg ctgcgctga aaactctaga cggggtgcac gacctgggaa agccaggcgc 240
 tcccagctag gcccggaagaa agcacggaac cgggaggtg accttagtag acaaccctgt 300
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 tcgcatcatg ttgtccatca ggcccgtgca gtagcccagg aagccgatgt agacaagccg 420
 cgggtcgttc agcttgggag ggggcagtct ccgggcctca tccggcaaga atcttaaggg 480
 ctcatggccc ggccggccgt tcatcatatt gatgcgggtt ccacgtgagg tctga 535

<210> 287
 <211> 398
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900613

<220>

<221> unsure
 <222> (1)..(398)
 <223> n = a or c or g or t

<400> 287
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 ggacatgcc ctgtgtactt cttcagtggc aggtggcact ggccctcagac ccgtaaccag 180
 ctgccagggt aagagtagtg aggggaacga gagtgcccag ggccagggca ggaggctgac 240
 cccctcgtc ctatgacacg agtgccacca ggtggtcagc caccactgct gaaccgaggg 300
 gaactgcana gacaggcttc tgggacccag ccactgggga ggccaacagc agtgtgcggc 360
 ccttcagtgc atgtggcccc ggtcatcatt ccattccc 398

<210> 288
 <211> 534
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA900863

<400> 288
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 aaaaaaaaca aaacaaaaaa acaaaaacaa gatgtccatc ccttgggtcc cttccctccc 120
 ccctccagct gtccctcagc cctgccccca ggactgaacc ctgggctagg gccaggtagc 180
 aggacagccc ctcaaagtga gtcagcaacg ttgaggggca tctcttcaat ggagggtgtg 240
 tagaaagtct caatgtctcg aagagtcctc ttgtcttctt ctgtcaccat gttaatagcc 300
 acaccttttc ggccaaaccg accacctcga ccaattctgt ggatgtagtt ttccctgttg 360
 gtgggaaggt cataattgat gactagggag acctgctgca catcaatgcc tctggccaac 420
 aggtcagtg taattaatac tctgctatag ccagaccgga actccctcat gatcacgtct 480
 cgttcctttt ggtccatata tccatgcatg gcagaaactg ttaaatcccg ggca 534

<210> 289
 <211> 447
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA901006

<220>
 <221> unsure
 <222> (1)..(447)
 <223> n = a or c or g or t

<400> 289
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 tacatgtcgc cattaacaga gctgacgaca aatattggaa ataagtgaat tactgaagta 120
 tggcaagatt taaaatgtca acttggagtg atcatgcaag cccatgcatt ggtgcctgcg 180
 ccctaattgc aggaccact ctgctcatcc ttgtggctct gtaccctcag cgggggttcgt 240
 agtaattctt ttcataaaag gtattgacag tccaactaac aacctggatt cctttggctg 300
 accacttctt caattgtccg gggagacaaa atccttctgc atgaggaagg ctgaaatccc 360
 acacaggtac cacaagacat tgtgcatgct ccagtcaagc aagatgtcca acaccacana 420
 cacagactgc ttccaaaaga cgctgta 447

<210> 290
 <211> 330
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901107

<400> 290

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acaaaggaca gcgtgaagat gtagctgtgg tcatccgtgc acggactggg ctcttggtcca 180
tttagctggc tgtcatgtca aggtttctta aatgccaaacc tcagtgggtt ataaattatc 240
ggccccccga ggatttcagc aagtccagat catccgtctt cgaatccatc tcttggtact 300
gaacttgatg tatcaagacc cctcgtgccc 330
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<210> 291

<211> 412

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901152

<400> 291

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agccttttaa cataaaatct ctgtaggaaa tgtcacaaact tagtgatc tgtcatataa 120
ataaatatac actaagatgc acactatcaa cagggtgtcct caacgtgagg ccacaacaca 180
gggacgcagt caactttaca actcaggact ggctggactg gggagtgagg gaggggcagg 240
tcgaggggtg ccgtgggtgg ctgttattgc tcaatctcgg gtggctgaac gccacttgct 300
cctctaagaa gttgggggac gccgaccgct cgggggtcgc gtaactagtt agcatgccag 360
agtctcgctt gttatcggaa ttaaccagac aaatcgctcc tcgtgccgaa tt 412
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<210> 292

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA901338

<400> 292

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agaaaaccga aggacagatc aaattgaaag aattactgtt ataataactt taatttatct 120
tgcattttac agaagtctat gaacgatatt aagaagcacc tccttactcc atcacgtttc 180
tctgacagtt gttaaagtag gcaacgagta tatcaacagc ttgaataccg gtatcttgca 240
aggatttcag aacaatcact cgccaaagaa cttggcagtt tctatcttgt ttttaactca 300
atggtacatc cactctgatg gtaacctgtc cagccaaatc tccaccacat tttgaaaaaa 360
tcaatgggtg ttagcaaatt agttagcttt ggcacggagc tgtgctcgct tgctgtgac 420
agcctggaag ccagttttga tactggccac agagcatcga gaatgacaag tttcacactg 480
taagaaatag agtcgggtgt ccttctgtaa gattgtgtcc ggtgaccggc atgtgtgaca 540
agtgcgtat tccttgatat atcttctcaa gacgttttct 580
```

<210> 293

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924036

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<400> 293
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aaaatacata gaatgtacca aaaggataac taaaatcttc aacatcaaaa gtggacagaa 120
caatttttct catgttcttt ggagtcttg gtttttgaga aaaacaataa ttccaggagg 180
tacaaggaca attcttcccc aaacgataac ccttaacaca tcttacacaa aaaaaggagc 240
ccaggagaaa ctggaggatt cacggtgtct aggttataaa tatcaattta aaagtcaccc 300
atatcatgta actcaggagc ctctgttcca acccagtgtg ttttatgaaa caaagagaca 360
gggctaacta aaggaatcaa agaacccttc tccaagcact gacaccaatc taactggaca 420
ccctactctg atcccatgtg tccttgtcac aaagatgatt ttaaaagtaa gaaagctgct 480
tgtcctgaaa gg 492
```

```
<210> 294
<211> 494
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. AA924152
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<220>
<221> unsure
<222> (1) .. (494)
<223> n = a or c or g or t
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<400> 294
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gagctggtca ggcaggcggc atccacacagg agagtgggtg gagtccttg gcagcacctc 180
acagaatgat ttggttggtg aagcttcgac tcagctcctt atgtggtaga acaatcgagt 240
tcaagataag cacctcagcg gggatccgta ctccgcagcc caggatggtg atggcaggaa 300
gtagctttcc atctttgaag aggtctctgc tgtccatgcg ggcgcggggg tcattgggat 360
tggggtcatt gggagtcctt tctacgcggg cccagcggcc cacagtgtc cccagcccca 420
caatgctgtg aaggacacag gtgtgttctt gcantgtggc tccatggagg acaatactct 480
cccgcagacg caca 494
```

```
<210> 295
<211> 292
<212> DNA
<213> Rattus norvegicus
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<220>
<223> Genbank Accession No. AA924196
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<400> 295
tttttttttt tttttttaac ttatcacttg aagtttattt ttagtcactt ttcttcaata 60
tcatgtaatt tactgatcgc aactgtttat aaatgtaatg ctgggccttt gagacaatta 120
aaaaccttta agtactaaaa ttttacatca tgatttggtt aacttaagaa gtgttatgac 180
gttgagaact aatagattta aagcagaaat gatgacttcc acaagaatca gtcactcctc 240
ccaacatga gaagggaagg aagacaagga aaaggtgaga cagaagaatg aa 292
```

```
<210> 296
<211> 380
<212> DNA
<213> Rattus norvegicus
```

```
<220>
<223> Genbank Accession No. AA924236
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<400> 296
 tttttttttt tttattttaag atggaaaagt tactaaacac agaacttagt tttgtacacc 60
 aactaaaatg ttaaaaaaaa acaaaccaca ggattcaata ttattcacag attcaggggc 120
 ctactggcta tcttggaaca ctcaaaaaga gtctgtattg gtgaaacgtg ggatcagttc 180
 tatctcacia aactggaaag attataattg agacactgta ggagaggttc agcatgaagg 240
 tgcctgactc acagtaaagt ttcagttcat agttactggg atctactctt aactttaatt 300
 cctcaaagct ttaagcttct aaatcttccc ctgggattaa aagtctcata aaatgtgtac 360
 tttcctctat ttcccttctt 380

<210> 297
 <211> 226
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924261

<400> 297
 tttttttttt tttttatggc aactcctggt ttattctcaa ttacaaacac agcaatggga 60
 agaagaaggt caccaaccag attcgtgtga caggcctggt gggtcacctc agagattcga 120
 cattgtgaat ggcccccatg gggtcatttt tatacagcat gaagtagcct tgcacctggg 180
 caagactaat ctgggatgta gctttaagga catgttcagc aaaatt 226

<210> 298
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924289

<400> 298
 cggccgcaag ctagegatcg cattgtgtgc caggcgcagg acgtgcaggg ccagcaggcc 60
 tgggaaggtg tcttccatga ggccagccac gcggttgtgc gacaggtcca gccaacgcag 120
 ggccttcatg cccagaaaag caccaggggc caccgctgta atgaggttcc ggtccaggta 180
 cagcttctgc agcctgggca aatgtacaaa gacgttagct ttgacgcttc ggagtgcgtt 240
 cctgctcaga tccagctccc gcagctcgcc caagccacag aagagcgcag gctgcaggta 300
 agtcagtttg ttgccagcca gcaccagctc gtggagggtg cccagtcctt ggaacactgt 360
 gtcaggcagg accactagac tgttccaacc caagttgagg tcccaaaggt gactgaggcc 420
 ctggaacagc ctttctcca gccggcccaa gagggtgctg ctca 464

<210> 299
 <211> 441
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924301

<400> 299
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 aaaacactta atagatacta aataaataga actggctgta aatctaagtt ctctgatgat 120
 aaccatacaa ggatccgcct gggctgatta gtttgggaga tgatctggag gttggtagga 180
 ctctccttca tcttcaatgt aaactgtgcc tctggtttcc aaagttcccc ttgtttctcc 240
 aaacgttgta tgtctagaaa catgttttaa gaaacaaact ggagaattgt atgggttttag 300
 agtgcagttg agaagagaat gagggttggt ttgttttaaag tacagaacaa gaaactcca 360
 ctgcttaact gattatccag aagtgaacaa gaaactgagc taaagggtgt gctgggtggcg 420
 gagaaaggga gcaacaaaga t 441

<210> 300
 <211> 441
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924307

<400> 300
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 ggtgtgaagg gctctgtgac tttcattttc atgctctggc tctcagtcct ctggcacctg 120
 tgcgtgaatc gctgcagcaa ggctgggcca acctaaggcc ctatgcactt tggcatctgg 180
 accagggacc gtttccagac cccacaaggt gaagtgactg aagctgccgg tggctccgat 240
 aaagcgggtca aagtcccgtc ccagcggctc ctgtgcctcg tccgctttgt cctccgcgtc 300
 ccctgagaag ttcagcttcc ctatcagccc ctctcccatc tcttctgtca ccatcacgaa 360
 tcccgcaaac cctggcgagg cagctacatc ttcgccccgc aggccacgac cgcgaaacga 420
 cacctgcagt ccgtctgcac c 441

<210> 301
 <211> 355
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924405

<400> 301
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 tctgcgactt tttctttttc tttgtgctgc tctttgtgca gcttgacgca gcctcaggct 180
 cctcagaaaa tttccttttc ttcttagggg tgatgggggt tgctgcctct tcaggttcac 240
 tggccacttc ctcttttaggt aaggacttct tttcttagg aacacttatg ctgctagtag 300
 ccatctcttc aagatcactg gccaaactcct ccttggggaaa agctttcttt ttcct 355

<210> 302
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA924460

<400> 302
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 cacagtgtaa caaatataat ttttacagct gttttacaat cgtggcgtct gttcatttgt 120
 gtttcatgct ctgaattact tcatccagta gtttgctcac ttctttgtgt ctctgttactg 180
 ctgcactcat gcagtcctga agtttagctc cagtcagccc actcccacct ggcttgtgaa 240
 gacagcacag cttgccttcc tcgtccatta ctacgggttaa ggttcctgtg gacaggtgct 300
 cctcctcccc ggtaggatcg actatcagca aagtgtcatc aaacacagca aatgaagtag 360
 caactggggt tgctctaaca ttca 384

<210> 303
 <211> 467
 <212> DNA
 <213> Rattus norvegicus

<220>

<220>

<223> Genbank Accession No. AA924767

<400> 306

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tttttttttt tttttttctt ataaaggaca acattttattt ggggctggct tacagggtgca 60
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ggaggagctg agagttctat atctttatat gaaggatgct agaagactgg cttccaggca 180
gctaggatca gcatcttaaa gcccacacct acaatgacac acccactcca acaaggacac 240
acccactcca agagggccac acctccta atgtgtcactg cctgggtcaa gcatatacaa 300
accatcacaa gaaggcagaa tcatttttta gtcccagcaa caatgaacaa gaatgggttt 360
ctcttccaat ctgacatcca caaaatagaa tcccactgta attttctatt gtatacttga 420
tgttatgcaa tgggtcaatta tcttccatt tacttaaaag ccacttgtgt ttcatttcta 480
ttaactgtgt tttcatatta ttgtccattt aatatat 517

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<210> 307

<211> 479

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924768

<400> 307

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tttttttttt tttttctcaa aactcagctt tatttgctc cattttccca cagtctgagc 60
tcagctcatc tggctttgat ggggtctcaga ggcccagtggt tacagaggcc ggtcacagcc 120
tgctccacca atccccctgc tggccttggg ctccccaggc aggaggacag gtgggtcatg 180
gaggatgaat tgatgataag aaagagtggg cagcaaggct agaggtcaaa gaaagccatt 240
caagcaatat gtccgacact cctctgcat gccgatcctt gccatacaca ctccagccaa 300
ggcagccttc tctccacat tctgccagcc cacagccgtc caggaccact ccctatctac 360
tcagtccact gcccattag caagggaaaa caacctctct cagatgctac atgaatctgc 420
ttgctccaac ctgggtctag caagaaggga ctaaggttct ggtcatctac aattctcac 479

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<210> 308

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924793

<400> 308

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tttttttttt tttttttaga cttagtaa atttttcaca ttattgtggt ctcttttaca 60
gctgtttgga ctcatTTTTT ttctttcaat cacacaatat tgtttcacgg aattcacaga 120
attcattaac gagctggtat ttacttccg aggggttttca gtagaacagc atcattgaaa 180
ggatgccaat gagctgcttg gtgatgggccc tcccgtccga tcagatggaa gtctagaaca 240
ttattgcttt attagtccta ttaataaatt gtaaatacact cctaggggaac ccacccggtc 300
aggcgccttc cctgtgggcg gtcagatgta tctgatctgt ggggtgtcaa actcgatatc 360
agtctgcatg ttctgaggct tggctgggtt ctagggctga ctgaggtgga gcaactgccc 420
ctcacattga tttctacatt taaaaaaaaa 450

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<210> 309

<211> 286

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA924993

<400> 309
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 gtttaaaaca tttaaatcct gtctctgtac atggcgtagt acgtgtgtcc tcccacctgt 120
 ggggaagggg aaggtgtgga aacagggcct tggagccctg gtgtgtgtgg ggtggggtag 180
 gtgggcagag cgggcgagtg ggttaaaaca agcatcttgc ttactaacat gaagcctcac 240
 accctgtgaa cagggatgag gctgcattgg cttgaggggg gcctca 286

<210> 310

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925045

<400> 310
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 ctgtaaataa acatattatg aataattaa atcgccattt attataaata ccaactaagt 120
 taaataatac tatttcacct atctttcccc tttgagctgg agtccagatt ccttctctca 180
 aattcttacc aggagtaaaa tcttttagtgt tgtgacctct gtacccatct gtacccaaaag 240
 tgccctttta taaactaaat gagacctaga actctgaaag gaagcttctt cccacttact 300
 gtagtggtaa actgaccttt ctgtttcctg agttgttggg agtacagggt agcgctacca 360
 gcattaaaaa actttcctgg gatatacttg ctttgtgctt caggcttcag ttcagatacg 420
 aactcccagg aagccttgga cctagtaggg ggagacgcac taacacagtg tcctgtcctg 480
 gaaatgtgta tgctt 495

<210> 311

<211> 118

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925049

<400> 311
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 gtgggagata ggaccaccaa ccgtgcctgt ccagaacaaa agttggctga cccacacc 118

<210> 312

<211> 428

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA925057

<400> 312
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 ctcagtctac ttgaaagtgt ggctttcagc tccacctcgc ccaaagcctt tgggccc aaa 180
 catggcggag tagcagggat ggttgacagta gggcttgctt tcatgctcag catgaccccc 240
 agaggtcagt gtctttccac atttctcgca cttcaggcag ggacgatgcc agtccttgcc 300
 tagtgacgtc actcgctcag cgaaatacac ctccctgtcg cacttggggc acttcggcat 360
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 gaattctt 428

<210> 313

<211> 570
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925063

<400> 313
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atgaagacga agatctgggtg gtgcgagtat cgcaacagca tggacacact gagggtaaag 120
atgaccatga tgacaaaggc tgccaggtag gatgtgctg ccatccacat gctgacaaag 180
cggtagtgct cccagagac cacattcctc aagaagcctt tgttctcctc attctctgcc 240
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cggctgaagc ggtccccgaa gcactgctcc cgcgtggggt cttgatggag ctgttggtga 360
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caccgaggcc cccatcacag aactgcagga tcaccggtgc ccggctggag ttgtggcgca 480
cctccacccg caggacaccc tcccgtggcc atcggctctg aacatgctcc aagcagttga 540
tgggggaccg ggagaagacg atgtgtatgt 570

<210> 314
<211> 505
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925145

<400> 314
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atcaaaaattt agaaaaggaa aattattcgc aattttcacta atggttactc actaatttgt 120
tacattgtag caaaaaacaa aagtagggcg cagcatacaa accaaacatg aatgtggaaa 180
gtgctagaac aagatgaact tgatctctga cttctagaaa ggtcttccaa ggttcattgca 240
ttttacttga atcagcaagt gtttccctga gcgttggtga ttatgtttgt cgtaattgcta 300
actagagagg aaggtaagaa gcacgttcta tggtccttgg ccatcagtag tttatgatct 360
agctatgcct gggtataaag atgcacttac taattctaag accttaaagc gataatcgcc 420
tttgaaagcc aagcatcatg actgttcaat aatcctgccg tcactcgcaa cagctttggc 480
gtctcctcta ctgagactgt aactc 505

<210> 315
<211> 527
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA925167

<220>
<221> unsure
<222> (1)..(527)
<223> n = a or c or g or t

<400> 315
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cagggaccag ccccaatgcc cacatgggta ctgatagcca actggcttct tcccaagatc 180
ccagcccccac accagaaca gagtcttaca aaagcgaaca aatacattta tcttcctttc 240
catcccctgg ccagcagagg tggggggttaa acagttcatt ttaaaaaaga caacgactca 300
taaaatgaaa acagaagaaa gaatccagag ctggagagct gagatgtggc cctggcgggg 360

<223> n = a or c or g or t

<400> 318

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tatgcaacca tgactgcagc aagaaccaca ctgaatggaa gcaggaagtc tgggggtcaa 120
gagtcaccag agagtggcag ctgggagatg gcacctcgag gtgcagggtg gaggctaggc 180
ctcaggtgtc ccttaaccct tactatggag aggctgaggc ccctcatcga tagatagtcc 240
tctgactcct ggtccctggg tatttcctca tgaagacaga ttctggcttg gctgtggaga 300
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gccttagtgt tgttcagcct ctgggctcag ccctatacat actacagcag gtgctgagga 480
caaggcctgg aaggcacttg gcttggacct ccggggccctg ctanagaatg cttatctggc 540
tca 543

```

<210> 319

<211> 508

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA925384

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 319

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tttttttttt ttaactatta gcctgagatt aagcaagaga aagctcagcc tgtgggtggg 120
cctcactgcg cacacctgcg ggcacctgga cttcacagca gaacgagtgc cctgcaaagt 180
cagatccaaa caccagtggt actcttggtg gcgtcagtaa tgtggatgga actctgccag 240
gcctgggtcca caggatcatt ttcagttttg ttttgttttt tttttttcag agctgggggac 300
cgaacccagg gccttgcaact tgctaggcaa gcgctctacc actgagctaa atcccccaacc 360
cccattttga gtttttgaaa ctgttttgat cctcaggatt gaacctgggtg cttacccacg 420
acaggaaagg gctctatctg tcaccttccc tcccatgatc ttcanaggct aaaaatgcct 480
actggaaact aacgacaagg acatttgc 508

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<210> 320

<211> 598

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA925541

<220>

<221> unsure

<222> (1)..(598)

<223> n = a or c or g or t

<400> 320

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aaatgtatga acaggaaaaa aagaatcaca catcacagta ttttaaaaag tgaagggtta 120
tcttggtgaga taccagttcc cctccccccc tccagagttc cagcatttgt tgtgggttaag 180
cctctactga cctagcattt aaatggaaaa aaagaactgc aaaaataaag acaaaaacaaa 240
gaaaccaaca gcataaagga aagaaacatc ttcctgctcg gatggagtct tccttcccag 300
catctaatta ggaggcgtgc tgtgcgggtg agaagcacaa cttcagagtg tatggatacg 360

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ggccatttgg gtttttcac tggtaatgg tccaggaagcc caaggtctcc agggcgatcat 420
tcttggagtc nactccagc agcccagagg agctacgctc gcttttgcct gaaaatactt 480
tcacagaggt tggccgcttc actcccagtt catcgcagat ctcaaagaag ttctcctcag 540
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<210> 321

<211> 499

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA925603

<400> 321

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tattactaac actgctcagc gaggcaagcc tgattctacc tccaccggaa ccacctacc 180
tgcattctcc tgggtccatt ttgtacccta gtgtcatgac cccagcctcc ttttaagacta 240
actatgaatg cctccaccca catctgcccc tccaatctta tcatattcct caataagaaa 300
tatatttgat gttttttctt tacttgacga agtagagtta ttattgcaga aatgaaaact 360
caatgaccaa cttaattttt aaaactagaa aagaagaaaa aatgtcatca ataatgaact 420
tgggtagagt acaacaagga gtatgagtta ttttcaaagg caacatatcc ctattttgta 480
catatttgca tataaaagt 499

<210> 322

<211> 457

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA925807

<400> 322

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taagtggcag gtgggtatat taaaggtggc ctgttctcat agtttcacaa cacagacaat 180
tcctagtaca cccttctatg gacaaacatg aatttgctgg tttctctttg taaaagggtga 240
tcatgataca cataattgca ttatgaggca ggatgatgta atacgtaaga caatgttttc 300
aagctgggtt tgtagtctt gatctcacat ccatttacag ttgctttgcc atgtgatgca 360
atgtgtccca catagacatg gacaaaacaa tacaactgcc gtcccttggc gggagacagt 420
gggtttcaaa gatgaacctt caaacacaac aagttgt 457

<210> 323

<211> 489

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA925869

<400> 323

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gtacaatat tgttttaaag taggaaatgt ttaaaaaagg aaaatttata aggcatacat 120
ataccctctc caaatttcaa ggtttggatt ctgataatct gtacataatt tggttaatta 180
ctgataaagt agaaattaca gtcacgcttt taatgagaaa tgacttggga ttctctggag 240
ctcttaattt tcttataaac cagggaccag caaacctgtt ctgacgaaga tcacagttaga 300
tacttagata cttgaggtgc tgtgggtcat gaagtctgtg ccatggccac tccaagccat 360
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<220>

<223> Genbank Accession No. AA926193

<400> 327

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taaagtgatg tcagtaataa cagagtcggg gtcacagtc ttggcattta cagtttgctt 180
tctgatcttc ctttggtcgg attgaggctt gcagacagac tcctgtcctt gatgtctatc 240
ttctcatctt gatcagagtt ccatgcagaa gtttagagag gttccgtcca tcttttgctc 300
atagatttca tcaaacctct cattctgggc cacagtaaag tggtttttcc aatcacccac 360
aattcctttt ctcatgaaag gggaaatgga ctgggtccatg atagtc 406

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<210> 328

<211> 421

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA926262

<400> 328

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agcgtagaac tgcaactcta cgtaaagtc acaaatgcac aataccgttt ccttgctcta 180
tttaccatagc tgatatactt accctaacag aggtgggtca attacagttt tgtgattgct 240
cccgtaccg tgactgcaca tccaccagg gccagtcacg agaggacagc ctctcacact 300
cttggtagca tccgctcagc ctacaacact gaagaagaaa gccacactca agacacaagg 360
aaaacaagtc agtccagtct agagaagaac attccgggaa acagagtacc aacaccttct 420
t 421

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<210> 329

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA926365

<220>

<221> unsure

<222> (1)..(512)

<223> n = a or c or g or t

<400> 329

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acaaagcagg gaatcatcag atttggtctc ggaggtaggg gagggaaaca gcaggaatcc 180
aaatgaggac agcctgggtg actggactgg gagggaaagg acttggtcga gtctcctgtt 240
cccacccggg caagagccag ttgctcctca accttcagtg gccagaggc tgctcctggt 300
tgagcctgtg gaagaagctt ttgccaact cgtaagtgtg gatcatgatg gcgcaggagg 360
gcgcagcctt gatgatcctg nggaggaaac ctgcaaagag tcccctggtg ccagattcag 420
cctggattct ccgaagcagg agccagggtg agtcaactct tggcggttc actctcatag 480
cctccactgc tcccagtgac atttgctcgt gt 512

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<210> 330

<211> 588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA942716

<400> 330

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gacttgccgc caggggggtt tctcctggat ggcgctgggg cggagaccac tgggctgggc 180
acaggagcag cgggcaccgg cttctcttcc acctgtgcca ggctggcttg gaagtctgtg 240
tccacatttt catgcacatc actttctccc ttgaggtcta agaaatctcc agagcttgct 300
tcagaagagt tactttctctg tgttccaggc gactccgaat cctccctgcc acctgctgac 360
ttggcccaag atgggggggtt ttcttcagggt gtcccaaaga tgtagaagc catcttggtc 420
ttcctcacgg gctgttctgt tggctcatca aaacctaatg aaaaattgga cccaccacct 480
ggaggccgca aaaccggga gctgttctctg ctgttagggg ctacaccctt gaagggtggg 540
gcagtgggtca tggcgcaaag gggcgaggta gactggccct gaaaacgc 588
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<210> 331

<211> 639

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA942726

<400> 331

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tagatgtggc tcagcggagg gagggccagc atggccaagc ctgtgtggaa cacctcacgt 180
actgccctca aaagctgtag gcgagcaaac atctgaccaa agaggtgtgg ccgaggttcc 240
cctagaatgt gtacgcggtt atagtatgag ctgaaatcca tgctgagctg caccaggaac 300
ttgcacacca tctccgtgcg aacagggatg tggagccctg gcgtgctagc caggctcaca 360
gtctgggtca ggaggtccag gaaggggaag acactgttga aaagcagcag ccactcacc 420
tgtgggagac aagagtgtct ggaagaccag cccaagcctt ctgcttgtgg ccgttcacgc 480
agtaacactc acctcatcat ggagtaatga gaaatccaga ctgctcacga gcgggaaagt 540
gggatacaga cttgtttcca ttccgtgttt gtaaccctcg aagagcgtgg caaggcgggc 600
acagttatac atgacaaaac tcccactctt cgtgccctt 639
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<210> 332

<211> 589

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA942731

<400> 332

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caaataccct tccatgcaga acatcatgaa ggtaaaatta aacaaaata ttatacctgt 120
atcaaaactc tttcagagtt cttagtattc gtggagggtta ctttaaaatc atatagcatg 180
tggaacaccc atgccaatgt ccatggcttc ctatggaaat gtttggggag atacatacat 240
atatatatat atatataata tttattgccc ctttcagaaa aatcctaata gaatatcaaa 300
tatatcccaa agttgtttct ataaataaga ctggtggtta ctgcatgctc cagagcagat 360
ttggaaggaa ttcgaagtga aacaagttgc tcttcctgat gtgactatga ggaaaggaga 420
ggccttgatt atccaagtgc tttgggctgg tacagtcact aacatcccc acttggctga 480
aaactaggaa tgcatattat ttaaagagtt tatatacatg tggatgaacag ataattgttt 540
aattgaaaga gaaacagatg tgaacaccta atggaaatca gaacaaaa 589
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<210> 333
 <211> 452
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA942745

<400> 333
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 tctcccaac acgtgggttt gtcccttttt tttctttctt tctttctttc tttctttctt 120
 tctttctttc tttttttttt ttttaaggcc ttcagataaa aacgaaggat gaaattgtag 180
 ggggaaaatg ggcgggatgg gggcggtggc gaggaatagg gcgtggctac cgcagagccc 240
 attcctcaga ctttccgtca ttttctgcca gccctttgcc cctgccaaga gctttcctaa 300
 accacttttt aaaacctaag gtcaaaacac agccactact ctctcagaga aagaagacaa 360
 ggaaagggaa aaaaacaaag gtgtcctaac gtaaagcacg aaatgaagcg gggagggggg 420
 gtcccatccc aaagcaaagg ggatgattgc aa 452

<210> 334
 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA942770

<400> 334
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 gccacggaaa cacattcaag atgttggtgg tcttctttgc tgcttgcttt ggggttaaat 180
 caacatgaag cacacaaaca gaagcatagc tacatttgca gcaaaggccg ctgcaaatac 240
 aaccccaaag agagggtggg ctcagcgatc catctcacag caatgcaggg agcctttgtg 300
 cctcctgcac aaaattagca cattcagggg agacgtgtgc ctcacaaagg gccatgtgga 360
 aagagttatt cactctcatc caaaaatgaa gacagtctga gggacaaaat tgttcatgga 420
 ctctgctccc aacgctcccc ccattcccca aacaagccaa tgctcaagac acctaccaa 480
 gccatgggca aacttgacca tgagcaaaaca atatgaatga gaacagaatg acgtaatgcc 540
 gttgtgcctg 550

<210> 335
 <211> 503
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA942889

<400> 335
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 tgccatggca tgtcttacc aatttcaggt ttagtgaga catacaaagc caaggaatac 180
 aatgtggatc accctctggt gcccctatggc ctctctgtgg tgctcacctc tcccgcagt 240
 ttcaccttca cagcccagat gtttccagag cggcacctgg agacggcaga aatattagga 300
 gccaacattc gcaccgcaa gatccaagat gccgggcttg tgttggcaga tgccctccga 360
 aaattcctat ttgacctaa tgttgatgac ggtctcgctg cccttggtta ttctaaggat 420
 gacattcctt cactggtgaa aggaacactg cccagggaaa gggtcacgaa gcttgcgccg 480
 cgtgcccagt cagaggaaga ttg 503

<210> 336

<211> 506
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA943131

<400> 336
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 ggagatggca gcccaggcct gcacagcgac acacacccat gcaaccaca gggctactgc 180
 cctgtcact ccttagacat gttcttgatg gtcttgtgct cctttatagc tcgctcccag 240
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 ggtgcgatac caaagccccc agggttggag cgtgggggtat agaagctctg gacaccgcat 360
 ctcttacaga aggtgtgctg ggctttgtgc gtgttaaagt ttaggtggg tatgctctca 420
 gcacccttca ggagtttgaa gcgagaagct ggaacaatga agtgtctatt ctgcttcttc 480
 ttgcaaagtc tacagttgca gtcaac 506

<210> 337
 <211> 618
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA943564

<220>
 <221> unsure
 <222> (1) .. (618)
 <223> n = a or c or g or t

<400> 337
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 caatctaggt gaaaagtctt gtgaatggtg gcacacacct gtgatcccg cacttgggac 180
 agtatgggga tcaggaattc aaggtcagcc ttggttatat aagcagtgtg aggtcacttt 240
 gagtatatga tacattgctt caagaaacaa aaattcagga ctggagagat ggctccttgg 300
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 gatccagggg tccaacgctc tcttgtgacc tctgtgggca ccaggcacac acatggcaca 420
 catacacaca tgagggcaaa acggaaaata cataagtcta gacaacttca ctctgtcggg 480
 ggataaagct cccctccctc gggccagggc tagctccctc tatgcagcca tccggaaaca 540
 ccacacggca accagagtta aggagatgct tcctttggta taaatatatt atatacatcc 600
 aaaacatgac attaanat 618

<210> 338
 <211> 513
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA943730

<400> 338
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 gcggcgcgct gcgcgacgtg gggctgtcga gcagcagcgg cgactccagt ccccgggcg 180
 gctgggtgtg gcccgaccgg aagccggaca aactgacgct gtggtgcagc tttggccgcg 240
 gctccggggc aaagcccagg tgcagcgcgt cgcgcgcgcc aaacgctcgc aggtcccccg 300

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aggcgcccc cgatggtgcg ggccgcccgt cgtctgcgtt gtggatgaaa tggcagcgcg 360
ggccgtatgg gcagaagccg atggtgtgga acgtgcggca cagctccgtc ttgtacttgg 420
ggtgccgagt gaggtgcgcg agctcatgga agccgtgcgc gaactggcac ttctcgccgt 480
acctgcacat gccgctctcc tcgacaggcc ggc 513

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<210> 339

<211> 642

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943737

<400> 339

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tgcactgaaa acaataactaa aaagacagta atatatTTTT attctctgta tcattttacat 180
ccagggtcaa tacctaagga caactgaaga aaagaatttc tgatgttccc tgtcagttaa 240
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ttaacacagg ttaggaagaa attcaataaa atgacctcaa agaagcaagt acattcgaaa 360
atcagaaact gctcttttaa caaaatacaa ccagttgggt gacacagatc acacaacact 420
ctgaaataac caataaaagt gccaaagatg ctcgtagggg ttagagaaag acatcaagca 480
acagctcttg ttttacacaa gtaaccctca gatttcacct cttttttttt ctttaccat 540
atctcctaag atcctggtca atataattac aaatagagta gacttcgtta cttccattac 600
aaacacatgt ccaatgtggt tgtaatggaa ataaggaaca ca 642

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<210> 340

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943785

<400> 340

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gtcacagaaa gatgggcttc aggaggctgc cctgcccta cccgtgagca gcagagggag 180
gccccagtg tggtctggga cagctggatg agggcaaaga ctggggatgc tagtccatga 240
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gcaagcgggc acttggcaca cctccaggaa ccaactatga aaatgttaaa ttcaatcctt 360
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tgctctgtgg cagatgaggg ctcctgaggg ccttgagca gcctggcctc agcccaaggc 480
aggtgccag acatgtggga gtgggacagt gggctcgccc agatgggaag ccattgtgctt 540
ggactggctg gacctgg 557

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<210> 341

<211> 554

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943791

<400> 341

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aatacatcga tttgcagttt tacagggacc agagagctcc tcggtactac cgtatTTTTat 60
gttgacgca cagacacgca cacaatgtca ttagtagttt ctcactctta cacttttctt 120
taaaaaaaaa aaaaactctc atgtgacaca gaaatctttc ccattacttt aacacagcag 180

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caacagagaa aagagcaagg tgtggaggct tccagtgcag aatgggggtcc ctggttgga 240
gaccccaaag accatcggtg tatttacttt ctgggagggc agaggatggt gatggagtgt 300
tgtctacagt ggaaaccaag gattcaaaat gtacaggggc aaagaaactt aagaaaatgg 360
agtaaggcat tctatctatg gaaatctgta agtcatttcc caaaaggatt gggaaagagga 420
cccattccta attttacagt cagaactttg ggaccattga acaccttgaa gtccccagct 480
cctacttcct tacaataggg cagagctgag aactgaacga atcttgatg ccagttttca 540
agctgactgg gttt 554

<210> 342

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943800

<400> 342

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gcagacaaga ggggactctc tcccaggga gccaggagga gggactctcc tcacagggtca 180
gagcttgagc ataggacctc aaagcccatc tccacagtga ctacttctc ctaacaagcc 240
atacttccta atagtgcctc tggatctctg aagtattgct ccatacttcc tgccccagct 300
ccagcgggtc gctctttatc aatcaaaaag ccacattcca gcttgaacca atcagtagca 360
tgacagcgcc caatcaatct cttaggggtg ccctttggca ctgaggactg cttgaccttc 420
accatggcag cttgcctttt aatatgatag tctcagaaaa tctttctggg gtggtgggaa 480

<210> 343

<211> 615

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943886

<400> 343

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ttggggctgt aataaataaa aagttttatta acaaggatg cactttttcca gccacaagtg 120
tattcaaaaa taaccaaaaa aaaaaaatat gtatggccat agttcacagt taagcagcca 180
aacaagaact gctctgattg tagcctttca acagcgaggg agcttctctc cttctccctc 240
cccttcagga agttttattca cagttccaag tcttccaact gaaaacactc tccacagaga 300
gaacttcaga gtcaatgcgt ctgtctgcaa aattgtccga taaactttgt aaagacaggt 360
atctcaagga aaactgtaact tggctccaca cttaagattg cccaaagtca actgtccacc 420
ttaggctggg ctggttccag cagtccagca ggccacagac gactcgtatt cgtaccagca 480
cctgtctgat ttctctaaca tgctccgtta tccctccact ggcttccctg ttgatctcac 540
agtggaaaag agccccacg aggtccgctc taaaagaggt ttttcagtta catctctgca 600
agagcatgtt caggg 615

<210> 344

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943892

<400> 344

ggacagtgtg catttttaatg ttaaaaccca ctttgtgttc tcaaataaaa aggggaatttt 60

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cctatacaga gtgccagctc ctggtctctca cccagtgctc caaacaacc cacaccccag 180
gaggctgctg ctcatcattt attctcagtt agcgccatct ccaaggagac ggctcttgcc 240
ttgctggaag gaggtagcgg aagccaaggg tgaaggcact gatttttgcc caggatagct 300
ctctgacgct ggccttgctt ccatggctac acaggaggca tcacaccaca ttttgggggt 360
tatccactct gccagaaaag tgcatagcac ctgagtcctg ctgtagatg gcgaacagga 420
acggactgct cagggtcacg tccaacacct cgggtgagcc aggctgctgg gcagactcag 480
tgggcagctc ctctcgcct gcttggagtt ca 512

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<210> 345

<211> 114

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA943896

<400> 345

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gaaatcactg tttattggct gtgattccct cagagagaaa atgtgaggct tctaacatgc 60
aggaggtgca ggcacaagga cagacagaca ggtaacacat gggctattct aagc 114

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<210> 346

<211> 554

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944011

<400> 346

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aggggcagga gctgaccttc tgtaagaaga ctgggctgca ggtgataggg gtcatagaga 60
acatgagcgg ctctgcctgc ccgcactgcg ctgagtgcac caatgtcttc tccagcggcg 120
gtggggagga gctggcccgg ctggctggcg ttcccttttt aggttctggt cccctggatc 180
cccagcttac caggagcttg gaggaggggc gtgacttcat ccaggaattt cccaaaagca 240
ccgcatattc cgcactcaca tccatagctc ataaagtctt gcaccagatg cctgctctgt 300
gctcctgaca gcctcgcagc cagggtcaaca gggtgctcta acagccacac cacacaggag 360
ctggcccttt ctacccccga ctgaccctga gtgcccacac atgctgtgct gtgagccttt 420
tgtgacacag tgtggtttac agttacatct ggtgacttta cagaactcca ctgttaaaca 480
tatcaccat ctgtgagga acccagcatc caaacaacc ctgtcctcag tgagatagct 540
cttgactccc taca 554

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<210> 347

<211> 636

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944077

<220>

<221> unsure

<222> (1) .. (636)

<223> n = a or c or g or t

<400> 347

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gtgccagcca gagcgacaag acacctgagg agctcttcca ccctctgggg gctgactccc 60
aagtgtgagg agcccacagc cagtcccgcc tactcccagc agccccgagg atctctctgg 120
agcacaggca gctagatgag acctcttcca aactgacaga tctcgggaga gccggggcctg 180

```


<223> Genbank Accession No. AA944165

<400> 350

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agccacaagc acatttatta tcctctggaa cacaagggcc tccttcatag cagcggcaca 60
cagaaaagaa tcaatctcag gagggagcca cactgcttcc ggaagcaggc ccgtgggggtg 120
gtagtgtcat gggtaggcagg aacaaggcct ttagcttgcc tgacaggctg gcaatctcag 180
gatcctgggc ttcgtaagac ttgaccaggc gggcaaaactt aaggagacct tccccgtcgc 240
agctgaagcc ataggcttta ataacctoct gctggatctg tgtggctaca ggcagcacga 300
attgcagcat cttgcccata tcgttgcaag cattgtctct agcctcgtcc atacgcacgg 360
cgttctctgg ggccgagaac gcttggatca cctccgccaa gaccaccttg gcctgctctg 420
cgctcagagc cgcaggctga gccgaggcgg acgccatagg acgccactcg gtgcttgaat 480
agtgtgaaca ctgagatccg gaggagcctg cagccagccg cctccccac ggctgcggac 540
tagtggaggc agaaaggaag ctgtattgca cgaggcgga gttcccg 587
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<210> 351

<211> 511

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944269

<400> 351

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aaagagcaca tgtgcatgag tttaaaaaca gaagtgaat gtaaggagtt agaaagaaat 60
acaaaagaaa tctgagacac gaaacaaaaa aaatacatc tcgagaattg aaataaaaag 120
gtatctcact tactacaaaa tcgttatattt aatgtattaa gcagtctttt gattcagatg 180
cagcacgaga ctgagttatt cattatcagg tcagaccgaa actcacagac taaaggaagg 240
accacagcat gacccaatgg tcgcaggaag ggatgatgtg agtggagggtg gagcaatggc 300
catgaggtat caccataaat aaactcacta gctcatcagc atccagcagt gagcagatcc 360
accacttcag ctggcctcct tggacgactt gcaatgaggt tcttcacatt cacagagcag 420
aactcatagt tccaaaagcg gtttctcact gtcctgtttt tcctcagctt catcttcaga 480
tcctgcttca gactcgggag gggagtaaaa c 511
```

<210> 352

<211> 486

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944289

<400> 352

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aaaaccaa atctttattctc tagtttgtaa aggaaggtaa atggttgtta cgtttcgatc 60
caaggaacaa aacaagaccc agtaggcaga agtcatagga aagcagaacc caatccttgt 120
aagaatttct aacaattaga cagtagaagc aatgccttct ggaggtaacg gtgaccacgc 180
accaggtg atgggtagag gctggcatct ataccctgga aaccttaaaa aggaaatcta 240
cccaggactt tccctgcagc caacccccca gctagtcttt cacataaccc ctgaagctct 300
gaaaagagtt ggggagggtc aggggtttta acaaaatcac caggaaggcg tatatttggg 360
gaagagcggg cagataaaaa gccaggcagg taaaggagta aataaatgcc ctgggaggat 420
aatatgcaca aaagagatgg aattgctaac tgtggatggg tcgctacaca tccgggggtac 480
ctccgc 486
```

<210> 353

<211> 459

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA944304

<400> 353

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gaaagtaatg aaataattcc aagactttta ataaccagaa tttagaaaag gacagtattc 60
gtagaaattt gattaagtgt acagagatcc aaaaagaaag attcaaagca tagcaaagaa 120
agatcgacgt agactccaga tggaaagtga tttgaaagag cacagtgggt gcctgcaggg 180
actaccagag gctacgggtg tgtctccttt acaaagggcc ttcgcaagc taacgggcgt 240
ttccctggag tggaggggaa ggtggtttca cttggtttca ttcacaaact atttggtcaa 300
agaaataagt aaagctaaat gaaagcacat ctggtagaaa tctgcagtcg tgagcgttgt 360
caagatgtgc ttggtctctg cagcacctgg cagtgggcag caggacacag gtcggaagct 420
caggggctct ctgtcgtctg ttctggaggt ggatccgtg 459
```

<210> 354

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944380

<400> 354

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ttaagtgcct actatgtgac agacacccat aaaacaacta aaaatagcga cattttaatg 60
ggtaaaatta gactaccctg ctctgtcttt ttttttccag ttctgaaaga cttatagtgt 120
tcaagggtgaa aaattggcta ctggaaacca ggtaaggccc tcacaatcac ggtgtacgaa 180
atatattcac acctgtcaga taccactcgc taatgctgct gttctgagca taagctcatg 240
caaaaacctc gtgtatgttc ttttgggttt cgggtgacttc acaatttgct ggaagaacat 300
ctatgaagaa aggtcttctc acaagatggg atcagggtcat ggagatcaaa ttcggtctcg 360
aaggaaggac ttttttcaaa aataattaag gcagccagca cagccaattt tgaggtcatt 420
cccttgatga ggtacttcga gccagtctca aggtctgtgt attcaaagca atgcaaaaaca 480
aatggtaac cagaatgtgt gaagtgactc tggtagtaga cttggggaca gaggaaata 539
```

<210> 355

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944397

<400> 355

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cagcctcatc atcactgact tccttgtcac gttccttctc cacaaagaga gtaatgggggt 60
agccaataaa ctgagaatgt ttcttcacaa tttcttttat tctcctttcc tccaaatact 120
cagtttggtc ttctttttaga tgcaagataa cctttgttcc acgacccatt ggttcacctg 180
tgtctgtcct cacagtgaag gatcctccag ctgaggactc ccaggcgtac tgctcgtcat 240
cattatgctt ggtgatgaca gtcactttct cagcaaccaa atacgcagag taaaaaccaa 300
caccaaactg gccaatcata gagatatctg caccagcctg caaagcctcc atgaaggctt 360
tggtgcctga cttggcaata gtgccaaggt tattgatcaa gtcagccttg gtcattccaa 420
tgccagtatc cacaatagtg agggttcggg cttgcttggt gggaaatgaga ttaatgtgca 480
gtccttccc cgagtccagt ttactagggt cggtaagct ctcgtatctg atcttatcca 540
ga 542
```

<210> 356

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944401

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<400> 356
ggggatacaa aaggcacctc tccctgtacc tgaggactca tcaatcaaca gatgagcccc 60
aggtgggtgg agcccttgct ggaggaacaa agcaaggata ggggaaaggc agtggaggaa 120
ctgggggctc tgggcaccca gaatccccga ggtctcatct tgacacctgg gcagtgaggt 180
ctttcctcac tgggtgcagc ttctgtacct gacagtgggc agctcagcag gggccaccat 240
tgcccttcct aataagccac taaagccctc ttcaggctcc actctgcagg gggatgggat 300
aggccaggct gtggtgatgt cttctctaata gcctagactg gtagtgtaga ttctgaagg 360
ctcctgtggg cttctctggg gaagggagca ggggaattcc atggaagcag ccttacacca 420
ggtcaattag gtcgcatcag gtcagctcgt ccggggccccc aggtctcagt aaagtcatag 480
tcggtagcaa gatgggaaga aggcagaacc agtcaggatc ccagtggagg gttt 534
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<210> 357

<211> 636

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944413

<220>

<221> unsure

<222> (1)..(636)

<223> n = a or c or g or t

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<400> 357
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ctttttatgt tattcgaata aaaaatacat tcatacagaa atataacaat ctcgcaaaaa 120
acaatttcaa ataaaatctt gtaaaacaaa attttacaaa aatcttacaa agattcttta 180
gataacaggg tgcttcaaaa aaaaaagaaa taaagaaatt tctaataatg aaattttttt 240
tttaaatctc aagcaaaaagt ttctgcttga ttgaggctca gctgtcacct gaacagaatg 300
tactcgctta ttattaaaaa tacaggcatt gacacatacg gcacccagcc ccacccagtc 360
caacaacatc tatgtgtttc ataagtgaga caagccagca caagtcctcc ttctcttctg 420
tttaccttct tacttaaatg aattgttgtg gataagcaca cagcagggcc aaaaaaagga 480
gttttccaaa acccagcaaa tcaagtgcta ggattttgaa ttgccaaaaca aaagtgcatt 540
ttccccttaa gcaaaaacgaa accagttccg tagagaaatg tattcgtcag gccagatagc 600
acaaaacaac acaacaacaa caacaagana aaaaca 636
```

<210> 358

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA944572

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<400> 358
tgcataaagg tcgatgaaaa accattacta gttctagtaa aactgaacat ttcaatccaa 60
aagtatagta agtgtacgta ttaaatacca ctttctaaag tacagcttta aaacagctaa 120
catgcttttt caatttcagt acaatggatc caagaccaag aatacagtta caggcgacaa 180
ggctagatta caaattatca tagtcatcat catcatcatc atcgatcatc tcttcttctt 240
cacgttttct tttgagtgcg tttgccgact cattggctgt attttgtgac accatattag 300
tagtaataag aatgtttttg gacccaatta atgatggatt aataagaaca ttctgaactg 360
ctggtgttgc aggaatggaa gcttttacag caggggactg agaagcaggc atctgtactg 420
taaacctctg ccctgtgagg gacattggag tgccactttt agttgacaca gacatggctt 480
gtggagtggg tgtgcctagt gtgggagtag taggtctact agaaactgaa ccaacactta 540
accttggaaac cgttattctt cctgcaggaa tatgtgcctt tttttgtaaa gacttaagc 599
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<210> 359
 <211> 491
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA944823

<400> 359
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 gtgaaatcat tgtacatttc aaagaagaca taaaaatgtt caaaacaatc acagttgaaa 120
 tgaaacgctg tgactgttaa atacctgtc tacaggaaca cttttataac agtggtcagc 180
 tgcttgactg aaaggatgca tatatttcca cactgttta cacttataaa ttaattcaca 240
 ggattcatag tattacttta tagctccaaa tgggtattag caaaaaataa tacaaaatga 300
 ctctcttttc aagcaacacc atctgcctca agtaaaacat attaaactac aacttggttag 360
 tacacaagat ttctgtttt attatcctgg gacatctcgt gctgtgggct actgctgttg 420
 cttcattcat gtacttaact cttacctcca aagactggaa tgtcttttgc aaggaatatg 480
 tacacaggca a 491

<210> 360
 <211> 476
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA944898

<400> 360
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 ccgtttcttcg atatgtcagt ctaaaaggta tatagcggaa tcaatttgaa aaatacaaaa 120
 atataactac acgaagtggg aaaaaatagt acaactgcat ttgctgatga tatgtcctca 180
 ggaaaaagga agtghtaataa attaacaaac tatgatcatc atcaccttta catacacaca 240
 aaaaggacac aggagactta ttaaagggtt ctatgatgtc tggaatcttc tactctaaaa 300
 gcttttagaga tttgagtttc gaaaacacca ttgcatgaac ttccagaaaa catatcattc 360
 ttcacatcag cttcagtata tcagcaagca cgtttgtcat atacaaggta acagctgtga 420
 tgcctaagaa aatacatccc catttatagc ttgattgtgc tctgtgtatt aaacac 476

<210> 361
 <211> 409
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA944943

<400> 361
 acaagatgct agccatttat ttaacaaaat ggaaatctct gatattctagc acttttctac 60
 atttacattg tcagagagga gacgcttaca ttctacagca tacgtgataa taaaagaatc 120
 cattgtaaat ttagatcagc taaaacattt tctctaata ga ctaggattca ttatcctcca 180
 gtgaggtaag gtgacgtttg ctttgttaaga ggagatgtgt ggacaagctc tgggtgtggaa 240
 gagaatgagc gctgctggcc ttctccactc ctttcttcgg ataggccctc ttgttcggat 300
 gaggtgggccc aggaaggcgg ggccctggctt tcagaaagca actcagtggg ttgtggaggg 360
 agagtgcgtt cagctgcagg gacctcactg gatgaagata gctcaatgg 409

<210> 362
 <211> 344
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA945052

<400> 365
 cctccactta taaacaaaca cacgtttgca tgggttgata ttagaaaatt aaacctttaa 60
 ttacataagc tgttttcaag aatcacgtac agagatttcc cagagacgct ggagttaggca 120
 gtcggccacc gcagtagatt gagcccacca tttcagcaaa ggcgctgctg tcctcagagg 180
 tagaacatgg gaccgcgggt cgtggcacat ggatgtcagc tctgctggct agtggactca 240
 cccagggcca gcccaagcag tgcttaggca cgcagctctg gggagctggg ccgggcgtgc 300
 tggcagctct agcccttcta tgtaggagag ggacctctgt gaggccgggt catttgctt 360
 cattccattt ccccatccag gaatcatgtt ctaaatatcc aggtcgacac atcttatgaa 420
 gttggttggg ctttatctga tattccaatc gccagg 456

<210> 366
 <211> 664
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA945076

<400> 366
 aaaagctact taattttaat actccacaag aaaattttaa aaagacttga cgctcttgac 60
 gttgggcatg gtggcatatg tctttaattc cagcagttgg aagaaacaga ggcaggcaga 120
 actctatgaa ttcaaggcca gcttggtata catagttagt tgcaggacag gcaggactac 180
 atagcaagac cctgcttcaa aaaaacaaga ataccagtga agaagcatta atgcactatt 240
 tgttttatgg atcaattgga gaacaaaatg tggagatgtt ggcatacca tgaaagagca 300
 atagtgttag cagtcgtgtt cagacctcct tgactaactc aggtagacag aggtgaggcg 360
 aaagatgaag cctacagata tggtggtctc agctagagag actctactga taatggcctt 420
 gggcctcgac aatggatttt ctgaaaatgc tgaggtagaa actgttttagt ctgttctatc 480
 tgaatggtta aagggtgtta tcattccaga aaccacttct gctgctaatt atctcctcgg 540
 tgcagtgtgaa caagtgttaa aagggtgact gtgtctgctg aaacatctct gtttactgaa 600
 ctttcatctg gaaatgagaa atgcgaataa gaaataagag gtaaatttaa ttttaagtaaa 660
 tttta 664

<210> 367
 <211> 648
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA945090

<400> 367
 aggcaagcaa aaggacattt tatagtttag agatagaact tagcaatgta caacaaaatg 60
 tctctgaacc taataaattc cagtagcttt ttaaaaagac cagaatctaa gaactaaaac 120
 tgaatctatt caaaataagt cttaatggct ttgtataaaa atagaaatga aaatacactt 180
 ttgtatgaat gggcttttat ttttaactga gggcctttca accccaaca tctcagtaat 240
 gcatgaagga agtaactggg ggattctaga gcctcctggg ctccctacga attgcccagt 300
 tccgtccacc accccatatt aatttttttag agtaaacata ataaatttgc atgaaaatga 360
 aggactagca gttgctgcct tgagtacttc ctaaaaagta agattgctga tgctgttatt 420
 tcctatgtat gatacgtgta tctgggcaag ttgactgaat actcctaaac cctggcaaaa 480
 tgctatcctg tggtttaata tcatacaatg acctgatgaa agtaacactt cccctccca 540
 acagccaaac ctttgacatc tgtgacaacc agtgaagaaa gactacctag ggctccagtc 600
 aaatcctgga gggttacagga gtacagaagc tatatctgct gatacaag 648

<210> 368
 <211> 705

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA945123

<400> 368
ctggacaaga atttttaaagc tttattcacc atggacccca caaaatatat acttgacact 60
gaatgtgact ataaatgaga agtgagaaaa taaaaatgat tcaaggggaa ttaggaagtc 120
aacacttact ttaaaatggg aatgaagaga cagagttcaa aaataaaata actttgcatg 180
gtcccaagtg gactagacac attcctttca aacacagtga gtgccacaaa acagccagac 240
atattcagac atgcatata tagctagaaa tccaccttca aagaaatagg gtgttaaaaa 300
atgaaaagtc tctagaaaaa tcacaaatta ccaccatccg tttcaattct atcgggtgct 360
atttttctcaa cacggcaaat ccaaacccca tgtttctctg ggcatttccg gcatttcaaa 420
gccagcgca cactgtaaga gccactgtct taaggaaatc taaacagaag acagggttaat 480
aaacagtgag gtcagtgtct ttacttccg catgctacct ccaatctcac cagaggatat 540
cttttggtcc cctcacttt agcctgccag gggatgacgt tgcccaaaca cattttcaat 600
gttttctttt taacagttaa tataattcca ggatgcaagt ccatttcttt ctagaagggt 660
cctaggacac ccattgaaaa gtcaaaagca atgaaaggaa aaggg 705

<210> 369
<211> 352
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA945238

<400> 369
aaaataaagc cagtttttatt ataaaaactt taaaatgtga tgtaaaagac agtcatggga 60
acactgtata agaagaaata ctgtgaggaa gttaaagggtc acaagtaaat tttacattgt 120
ccgtgaagtt taaaaataat ctttatagta aagtgtcttc agagcaccat catttgaaca 180
gaagatattt tacatatcag agttcatctt tggccttttt cctatggcat gtgcaaggga 240
agaggtcac ctcagactgt ggctctacct tcttcatacc ctctcgaatt tgagggtcac 300
tcacttgtaa attggcatag ccctggaaca gcttgaagta ataacagaat at 352

<210> 370
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA945533

<400> 370
aggaacagaa aagcatttca aaaggccatt ttaatgcaaa caaaatattt taacacatag 60
caataaagca agttcaactt ctatcatcca ccacactaga tctgatcaca caagaaaata 120
cagtgtcaac agatatctgt ccatttcaat caaccttaat tttagatatt tggggagatt 180
gtagatagat agatagatag atagatagat agatagatag atagatagat aatagataga 240
cagatacata gatggataga tagatgatag atagatagat agatagatag atagatagat 300

<210> 371
<211> 505
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA945591

<220>

<221> unsure

<222> (1) .. (505)

<223> n = a or c or g or t

<400> 371

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gtaataaaaa ttagttttatt gaacagggttg gggccagctg tggtcgtata cacctttaat 60
accagcgctc aggaggcaga ggcaagtgga tctctgggag ttccaggcca gccagggata 120
catagtggga cggctctcaa aattatttga acagggtactt gagacatgtg agatgatgat 180
gtggacagat atgactagca ccctcaggtc ctccccaggg tacagcaaaa ataatcacia 240
accaacattc tttaatcaga aaggcacttg agggccccta cagagtctta cacaagagca 300
gccctgcgga ttcccactca gccaccctcc cttcccatcc ggctcagagt tcatcgtgac 360
ctgtggaggg atctgctccg ggcttgatga agattccttc catggccttc cacgtgttgt 420
gtgcattggc actangcatg ccatgcacct catgctgccc acggattggg ttaccatact 480
gttcaacagt aactgacagg aacac                                     505
```

<210> 372

<211> 556

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA945596

<400> 372

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cagtccccag aacttaaaaa tcggaacat aaaactccct ggccctccag gcagcaggca 60
gatcagagcc cgcccatcag agtgacgctg agtcggaatc agaatttgtt ccacactgat 120
ggcacgtctg ttagaatgca cgtttcttca ggagcaggac gtgttccagt ttctgggaat 180
ttgagaagat ctggcctctg tctctgctta caggtatgcc gtgggatcac tggagtcaca 240
gttttcaatg tgtacatgcg actgtatgcc agggtaaact ttctgcaggg gcagcaagggt 300
gccagcttc gctccctttc tgatagagcc cttatactta attggcttaa tgtagaaaat 360
tttgacgcag aaacctcttc ccgacagtcg gacgccatca ttgatggcgt ttttggtttc 420
atagggtttc tcttgcccca ctatcttccc cgtgaatggc gcatacacca cagatccatc 480
tgagcacagg acgtccacac ctggatgatg cctttggggt ctttgagtaa agtactgtcc 540
acagccatag ctgtca                                     556
```

<210> 373

<211> 615

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AA945601

<400> 373

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aaaacaagtt tatattattga aagaatctga aaatagtaat aaggccttca ttaacaatta 60
acaaaatttt aagatattaa caatatgaaa cattaagaat ttacgtgaaa attccatgtg 120
tttgagatca gtctgggtggc agctgcttct gtacttgtca acactcgctt tttagatgca 180
tggaactatg ttcagacctt gctctcctct ggatcatagc agagcctgct gtgcgcagtc 240
acagatgaac agcacagggtg aaccgtgggg atgagccacc atggcttaac agcactcaag 300
ccagaccact tggggctgca cgggtgcccc gtaggtccca actttaacag gtagaagaaa 360
gctcagagta gtcggttcta tagcagctga caaaccttcc ctagaagcat gagacaaaag 420
cctgacttca cctggaaagc cagtcaaaag acaggcagtc ctccctactc ctgccgtaag 480
aggtgagcac aaaactgaaa gcggatacct agctgaggtg ctggggccga ccaactgacc 540
cacaaggcct ccaggggccag tgtggcactc acgtgcgtta cttgcactac atacatgtgt 600
tgcacacagg ctcca                                     615
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<210> 374
 <211> 520
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA945704

<400> 374
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 aaagaacaga tccattccct cccaggtct gactcatcac agccctggac aggcagtagt 180
 tgacagggac tgctttcatc caagtgcaca ccagctttgc atggaattat aaaaacatat 240
 ttacatacgt tccacggtgc tcctttcatc agaagcaaag gcccttttat caaaagggat 300
 tatatctagg gctgtgcaaa attcaaaagg actgtatcct tttgagaaag ttgagtccat 360
 tacacacaca catacacaca cacaaaaaaa gtcacctgca cctctgagaa gtgccagggtg 420
 tggccaaggg ctacctctgg accagcaagt actgtgactg taaggcagcc atctgatttc 480
 aagagagcca cagggtccagg ggatctctg gctgtccagg 520

<210> 375
 <211> 594
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA945708

<400> 375
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 atcactctgt actccaggga agatgagtga aagtgaatgt taacttacaa ttttaatat 180
 ctcatataaac ctaaataaag attttaagtc gatacaacat gagttctttt aagtgaccag 240
 aacatcttga atatgtttta cagatgtttc tatgagcaaa ttaaaacaca aagaaaatta 300
 aaatagattc acattaaaat atctaaacag taagtgtaac actgtgagta ctagtaaaact 360
 ctacatagtt tgttatatatt gaacaaacac taaactccag gatggacgac ttattaacaa 420
 aaacatacat aagtcacttc taaaaatgac aaatccaact tttaaatgct aaaaattccc 480
 ccaagttagt ttttaggcac cagagaagtt ttctttcaaa aatttcaggt tttttttccc 540
 acaagcaaag tagaaatatt aattgggact tcagctttag agaaatttag cttc 594

<210> 376
 <211> 591
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA945751

<400> 376
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 gtttctaaga aacaattact ttttatgcaa acacagcttg gctttaagac aatgacaaaa 180
 gttatgcagg ttacacagtg gagtattact caactcccaa ctacgacagt gccttttacag 240
 tctctcttta aacagcatag ggcttcaatg aaaacagagt gcaattaatg tcatggcttg 300
 taaagtctga ttacagaggt acagcaaccc agcagtcact ccagttagtt tccacacaca 360
 cagtaaagcc acagtgggct agtgacacac actagctcca tcttgtagat actgggtcaag 420
 caaactcagc agaaatgaaa aatccattct tacaagtttt ttaaaattac tcttcacaac 480
 tgctgtatga aaacaaccac agagacagtt tggaaagtct tctggaaatg cttacagata 540

tacagtacat tgccaatggc tgggacgggt gaagggacat gaaggcctcg g 591

<210> 377

<211> 489

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA945879

<400> 377

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tagtctcact ctctcatcaa tactgacgtc agacgaggag actttcagat ggggtgctct 180
gtcttcagtt gtgttcgtta gcatggtttc atccttagca atctccattc atcaagatgg 240
gactgggagc aagccagcct ccatgtctag acacaaacct ttcgcagctt ccttcctctc 300
gcctgtctcc taggaaggag cagtccccac ccgcatgatt ctgaagagtg tgttgatggt 360
gttactgca atcgcatccc gacaagcact gatcacctgg ttctttgggt ttccaactcg 420
cagacggcct gccctctgga ttgcttggtt caccgccttc aggtttccta acagttcaat 480
gtggatggt 489
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<210> 378

<211> 596

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA945904

<400> 378

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gtatgagata caattttgaa gccagagaca tggctcagaa ggtaagggca cttactgggc 180
aaatctaacc acctgagttt aatacctgag tcccacagtg ggaataaaga accaactctg 240
taaagttgtc ctcttacctc cacacatata taccatggca cacatatgcc cacacgcaaa 300
aaacacacat atgtgcacaa taataaataa aataataaaa agaaaagccc tttaaaacaa 360
ttttgaagca taaaggaaaa atgcccttat ttatttaact taaatttctt accccttaag 420
tattcacatt aatacatctt atagtacatg tgaaatatga caacatgtga gttatgcaaa 480
gtatactaga ttaaagagca agtcaaatag caaaggacct aacaattttg gaaatgttac 540
tcaatcctct ctttttctgc tttattgatc tgggcaaagt ataatgcct ggaaac 596
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<210> 379

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946011

<400> 379

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agatcaaata atttattgtg atattgggag taaatagata ttttattaac aaaacaaaaa 60
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gtcagaaacc cagttctaaa gaacagctgc tgggtgtcact ttattgcatt caacctatga 180
aaggttggtt gtgggattga agtgactcac cgggaccctc tcaccccaac tggacacacc 240
tcttgctgcc tcttttggtg tataggaaga caggtgggct tctccttgag gacactgaag 300
tcacacagca aagtagcttc ttgccctcaa tgcccacctc acctccagag cgctgagctc 360
cgcattgggag cagaacagca aggatgagtg tcttgcttcc aaaagctttg ggcagacaca 420
aagacaatct atctcatctc agaattgttt tcctcaagaa gtctcatgta tccttggtg 480
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gcctcaaccc tgccaggtaa ctgatggtga ccttgaatgc ctgatcctcc ataacacttt 540
ttcccaaggc ttccacctgg 560

<210> 380
<211> 630
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA946034

<220>
<221> unsure
<222> (1) .. (630)
<223> n = a or c or g or t

<400> 380
gaatgccaag cggctctgtac tttctttttat tatcaccata gtcttttgcac caagatacac 60
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ttaatttttac attactctgc caagaaagaa aaaaaaaagg atttaaactc aagttacttg 180
aagcctggac ataacttccat gattagccgg gctacatcaa ggcgtggcct tgtttgcct 240
acaaagatgg gaccagggtta tacttgtttc tgaaaagtgt gctacaaaaa tggatggcct 300
gtcatccgcc aggttacaaa gtaaggagga gggtaaggga gggatatttt cttcaagaaa 360
aagcaacact taatttctga agaattccag ttcataattt tttccccaaa atggctgaag 420
gaatgggtaa aatctcaaca tgagctccca cgtcctgtct gtgaaggacc agcagttgcc 480
ttgctgaggt gactgctang aatgcacatg ggaagtgtac ggcccgagg ctgtgccagt 540
gggctgaagg gtcactgggt cgatttctta agaggtttct tctagaagca gacaactcag 600
actcttcgtc gtacttcagc aaagaagtta 630

<210> 381
<211> 447
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA946108

<400> 381
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tgaatgacaa tttgtcatt ttcttcatga attgggggtt gatagaaaat gcatatgtgt 180
cactgaaaga cagagtgtatg ggtctgtgtg gttggaactc aaaatgacat tgctctgtca 240
gtgtgtgtctg tgccggcttg atggctttga tgggggagg gtacacttgg ctggtggtac 300
ttccaaagggt gaatcttctt atgtagggtt agtggtcagg gcagccattc aggctgacag 360
aaccttggac ttctgtggct tctgtgatgg ggacagggac atgggttgact tgaatattct 420
tcagacagcc aaaaaatgag ttccaca 447

<210> 382
<211> 476
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA946187

<400> 382
ggaatgactg tggagtatta aatattaaca cacaaaaatt aagctccagc tttagtttta 60
aatgattcta tgggtgttaa ttactttta gaatgtttca aatagcattt caatgttacc 120

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aaaatccttag ccataattgt aaacttcaaa accttttact ttacttttta catgcatttg 180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtacc atatatgtgg tactgtactg 240
tatgtgaatg ggtatctgaa aacaatgcca gttctctcct tctactgtgg ggtacagaga 300
atgaactcag gtcacaaagc ttggtggcaa tcatccccc acactgaacc atcttgctgg 360
ccacttctaa tttttaaaatt taccatggct ttccaatgga cattttaatt gattgggcac 420
agatatgaga gacagagaac caacttttgg ctgcatttaa agcatttact aatctg 476

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<210> 383

<211> 465

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946189

<220>

<221> unsure

<222> (1)..(465)

<223> n = a or c or g or t

<400> 383

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tccctgctac acactctgtc tcagaaaacg ctcaaagagt agggccagca tgtggttcag 180
gcatgagggg acctgccctt ccctccccag gatgaagaac agggctgggc cagccaaggt 240
gcttcttcca ctgggtccaa gagccagggt accccaggct attccactcc tgggctcttt 300
ggggttggcc cccggtctgt cctccaagcc acacagttaa ggccagagtt tcaactttcta 360
atgcagccca tctctgacag tctctgttcc ctangcacgg tggacacagc aagacacagc 420
acacagacta attccccagt gtttggtggg acacgaaggc aggac 465

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<210> 384

<211> 532

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946361

<400> 384

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acaagttaga atcaagaaag aaaagacagt ctggggggcca accggagagg tgactaaaat 60
ccccaggccc caaatggagt ggaagtaaag ggaagagtag aaaaaaaagt caatgtaaaa 120
aaacaaaaag agctccctct tcttccctcc ccatggaggc tggagggcgg accacggcgc 180
tacacccccca gccttaccac ctagcttaaa taaattaaaa cctcaaaaca gggcccttag 240
aagtgaacag gacagctgca gctcaggggg cttggtgcca ggcataatgcc cacacccacc 300
catacccttg cccaccccc atcatcctca acaggacat cacacccaac agggctagga 360
attcaatctt attttgtctg tgtccctgca ttctcccca ctgcagagcc agctctccta 420
tggaggggtg agatgaagaa gcgtcacagc aagggaagag tggggaaggg tgggtacagg 480
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<210> 385

<211> 658

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946368

<220>

<221> unsure
 <222> (1)..(658)
 <223> n = a or c or g or t

<400> 385
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 aatccattta ttataaatta catcttttaa cactataaca gctctctgaa gttacattag 180
 ttgtggctga gcagaaagag aaaaacctac tcagttttca aaagagctag gcagcctgga 240
 acttgacaac atacttaaaa taaagagcta aaatgtgcta aaaatagttc atttcatggc 300
 gaggaacaga acatataagc tctgtgtaag aaagtaaaaa gaaaaaaata tctgtgatac 360
 ctggccttgt tgttgccaag gacaccagag agggagaggc ttaaacaata tattagcaat 420
 gggtcatatg tgaattgttc atttttcatc cttaaactct taaaatgatg taatacttat 480
 gacatatcat gtgctgacag tcacaaggaa catttgctat aaatgaaagg gtcacccag 540
 acatgataac agtttacttc gatgaggaac aaagcgtttc ttagaatata tacattcttg 600
 aaatttgcca acangaaaa aaaatcagta aatcagaacc aaagaagata attagttc 658

<210> 386
 <211> 527
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA946379

<400> 386
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 acgtatttgg tactctgat ctgtttatat taaaactgtg ggggaaacga atatctcggg 180
 aagcgctaca tttccagtcg atcgcacctg gcacggaaag cgtcattgca tcttaggtcc 240
 tgcttggtat tataaaagac taatttgaag tcctaggatt caaaataaac atcatttgga 300
 ataatagata tatacatcaa aaatacatct agaaaggcat tggttagtgc tattaataag 360
 ctgtgtgctc aggtactctt ctctttacag gcgaaacccg gtggaaatgt ttgaattccg 420
 tttctagcaa tttgctcttg gggaagggtc gtcgaaagtt acctgggtcat attcttactc 480
 ctcactccca ctgtccatgt caatgtctac ttcctccgtg tccacgg 527

<210> 387
 <211> 594
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA946428

<220>
 <221> unsure
 <222> (1)..(594)
 <223> n = a or c or g or t

<400> 387
 agatgtctgg acagcaaagt ctttatttgg aggtagttaa tgaacagctt acgcttattt 60
 catttacaaa tgaaatttgg gaataattaa aaaaataagt taaagactcc aatctacata 120
 cacacatcca ttaactattt tctcctaggc cttagactag aacacaaaagc aataagagct 180
 gtaaccttac tttgaatagt gaggaggatc ataatacataa cttggccttt atctggggtt 240
 accacgaaag cagttagcaa acagtgccgc acagttatgt tttagtcaaa aatgaggttc 300
 agacacaata tgggtccata cggtcctatc tctttgtgac atcataagca ccttatattt 360
 tttaatattt gttcaatgga actccccggg gtcatacttc tcaaaatcca tcccaacaag 420
 tgggtgcatgg ctgcaaatga tgatgcttgg agaggaattt agctgtctac tcagtctgca 480

aatcacaatg tgggtggcctt agtagttcta atgacttacg tgccaggaaa ggggtccccct 540
tccccatttg cttaaaaaaga tctagctgtg ccagtgccan aagttactta cttt 594

<210> 388

<211> 680

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946441

<400> 388

gggtcaagtt cttagtacac agcagtaatt attccaaata caatttataa attaagtga 60
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tgtctgctca ggttgccctga atgggttttt actcagtacc accaactctc tgggaactgt 180
gagtgttaact gccagatcat aaattgttta cattcttttt gtaaaccatt ttattaagaa 240
aaaaagggtac atggacataa aatatgatta aaaactgctt ttccatagat ttctgaactt 300
gcaaaagagg cttcagttta atgtgaaaat aagcactttt tttttttaca aaaaaattaa 360
cgtattttatt agcaagggtca tttacacagc taggccctgt catttcattt gttgattttg 420
tttttaatat agattctcaa taaaacaaag agcatagagt aaatttaggt aactagctca 480
atgccttcac gtagtaactt cgtaaggctc tcgtaagtaa ggctgtgtac tttgttgtgc 540
tcattctgtt tcttgccagc atagaactaa atacaatgca ttcttgctac acacagcttt 600
acagaagggt atttatgaag ttttagaagg ggtgaatgat tattttcact caggttgcac 660
ttaactcctt taagcaatct 680

<210> 389

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946466

<400> 389

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tcttctactt cacagtctaa gtcctgtgcc ttaactccct gcgtgggtggc ttgttaaggg 180
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ctagagtggg agtctgagac cagaatacac agtcacctcc ttctccaaag atagcaaaca 360
ggctacggta ggcctgcagg taagggtggc cagaggaaat taccatgcc atggcctgtc 420
ccatgacat aattgggcc aacttcccat aaggctcttc tagcaaaggc ttccaccact 480
ctccatgat tagccgcagg aaagacaagt ctggacagat cgatgtttc 529

<210> 390

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA946476

<400> 390

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gccactaagc tacatccaca accgtctagg ggagttttat ttaagaggca aatgtggaat 180
aagccttgaa catgggatcg aattaatgat gaaattccat ggtctcaaaa agctacatgg 240
aaggttctgg aagccaaccc tgggtggtctc caaccctggg ggaaccccca gaccatttgg 300

<400> 393
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 tcttgcaaac acctgctggg gctgtatgta tagctggatg gagcccttca ctgggttctag 180
 accacgcacc acaagcatca cagggaat aattcgtgta cctctgaggt aaattctaca 240
 aaaccaagag cattcagaca catgcttttg atcacaagga gactgccttg agaataatt 298

<210> 394
 <211> 408
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA955443

<400> 394
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 tttcagtcct cctcccaag ctatagggcc tgaatcagaa gggacgacgt ggtcacatgg 240
 aattgctgt aaccttacac gggatattct ttaccatgg ttgatcaata ggggctggac 300
 tctgctctga gccaccctc agtgtggctt cattattggt catccctatg tcaataacac 360
 tgtccttcga tacagcatat cttaaccagg aagccctgcg tattgtgt 408

<210> 395
 <211> 495
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA955540

<400> 395
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 ctagactcct ccatttagaa aataggaacc acggtttcat taagctgtgg ctccctttcc 180
 ttttaacctaa gcttagttta aggaataact cctcgtaca attatgtaac taactttaat 240
 caatacatag taattatgca agcctcaata cagtagctaa ctttttgaaa atgacttaac 300
 acaactatt acaactacc ttctttgaaa atttctctat gcaagtatca gaacagattt 360
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 tataaacatt gtcaactact ttatttgtaa agtcaagata atggattatc tcctctaagt 480
 aattaaattt tgcaa 495

<210> 396
 <211> 387
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AA955564

<400> 396
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 gctttctggg ggaacgcagc gcagtcacac gacaaaatac aaaactaggg ggctctgtct 180
 tctcatatcat catataatat tcaagtattt tttttatgta caaagagcta ctctatctga 240
 aaaaaataa aaaataaatg agacaagata gtttatgcat cctaggaaga atggggcagc 300
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387

<220>
<223> Genbank Accession No. AA955729

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<210> 398
<211> 445
<212> DNA
<213> Rattus norvegicus
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<400>	398						
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agtaggtgaa	cccaccacgt	gtgcacatac	tcaaagccaa	actgaatttc	agtttgga	180	
aaggaatgtg	accagggtact	aaaatggtgg	cctagattgg	tcaggaaaat	agcccagttc	240	
cccccattca	gagagggtat	cgaggctctg	gccactgaga	agtttcaagt	attctacctg	300	
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<220>
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<210> 400
<211> 392
<212> DNA
<213> Rattus norvegicus
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<220>

<223> Genbank Accession No. AA956170

<400> 400

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tggacctgca cccacatagc actgtcactg tgaagatcac agaagaccaa caacctccag 180
attggttaatg ttgacttttag cgtctactca tatagccagt gtcccgcgct gtcctcccag 240
cacagaagct catcctcacg gaaccaaaga gcgatctctc tctgagcact ttccaccgaa 300
tactgccat gaatcacatt cttgccaaacc tccacacaga aatcaccacg gatcgtaccg 360
ggcgtggcgt cccctgggtc agtggccccct at 392
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<210> 401

<211> 283

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956247

<400> 401

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tgcttcgctg tttttacttt cttaaaggag aattaaggag gagtaacaca agaaatttca 180
acaaaccaga tgcttttggt atgaaaagcc aggtttttct caccagcca ggcatttaat 240
ttgatagcca gaataaaaac aggaccagag aatgaggttt tcc 283
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<210> 402

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956278

<400> 402

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cgtcttctctg gagggcaaaa atggtctgga cctgaaatc ctaacccaaa taaaaaaaac 180
cacaaaactg aggttccaaa aaagttaaag aatcttaatt ctttatagaa aagagagagg 240
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accctctctc ttacatagct gcctctgatg ggacaagct tggggtatag catttaaaaa 360
ctccacaccc ccattttatc aaaaccaaag agaacaaaaa atttcccttc cccccacaaa 420
acccaaatat atatatatac tttttcttaa aaaaaaaaaa tccaaggcat taaagcgtaa 480
aagtgaatcc agaacaagag a 501
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<210> 403

<211> 379

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956301

<400> 403

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cctgcgtggt gaggggatgg aaaggcgtac ataattctca ggagtaaaca tgatttacct 120
gctgaaggct tcacaccgta atgctcaaga gtgatatcaa ggggaaagggt gtatgtaagt 180
gcttctatct ccacagacag aagatgcgaa gtaaacaaaa tagaatggat ttaacaccag 240
```

gtgttccac ggggaaaaga cgactttaaa gctcatcagt tgggtagaag acaacagagt 300
cccaccaggc tgcacccccca ccctctcctc aggctctgga gtaggtgagg catgccagtg 360
tggaatgccg acgagagca 379

<210> 404
<211> 426
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA956431

<400> 404
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caaaacaaaa ctcttctttt cccaaaataa ccatgattag cttagaaaaa tggatgtata 120
tcttcaaagt gtttcccttt aacggaaact tcattttata gaatctaaac attaaagggtt 180
tgaaaaacac aaagccagaa tccagcataa gtcaaggaaa tccactcata cttcaggccc 240
ttctctcca ggaaccagca ttgttatatt atttccattt agtagaattt gatctaattt 300
tgtaattctt ctctcttctg gtgtaatttc aaactctgtg acatcttcca acaccatatt 360
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gtgaat 426

<210> 405
<211> 446
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA956723

<220>
<221> unsure
<222> (1)..(446)
<223> n = a or c or g or t

<400> 405
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acatggccc ctcagcttac acagcccagg cccacgtgct tagggacgga accaggcgca 180
ggccaatctg aaatcctggc atttgggagt gggaaggaa atcaggaagt cgccatcttt 240
ggttacatag caagtttgaa gcgagattgt tgcaaatgag atcctgtgtc aattcctcct 300
ctctctcttc caaggggaat tacatcccga aatcacgtga gcattanggg tcatccccct 360
gttctgtgcc tgggaggatc ttccgggtgt tctctccata gctacagtgc ctttgtttca 420
gtctacaaac tgttacacag taactg 446

<210> 406
<211> 425
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA956864

<400> 406
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acaagagttt ggggctgaac aacagagctc tggaaggca ggagcctcct agatagcaaa 180
gggaatgtgc ttggagtttc acttcgggtc cagaatgaga cccagcagt tctcccagaa 240

ctcgggctga tccagtatac tgcctcttca ttctccacca ctgacagaga taggccaggc 300
 cccagaccac agtaaaaaaca attgatcccc agagggttaga gctactccct acccccgacc 360
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 ccagg 425

<210> 407

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA956910

<400> 407

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 tgatgggtcc tcacaggcat gaaccaccaa ttcgagccca ttctcaagt ccacttccca 180
 gccatctgca gctgtgggga gcccaggaaa gacacttcaa gtggaatgaa tctcaaacac 240
 cttctcctct ggcagcgtgt aaggggccag aggatgtaca tcaaaagctt aagacaatta 300
 aaatattaag tgccacagga aaggatcaat gataagcagg agctgtagtt ctcaagtagg 360
 aagctactat ttacacaacc tcacaacctt aacaaatata agacgaagag ggctgggcag 420
 cacggcttca tttgctcccc tctctgcttc tgataaacac ctcgaaatgg agaccgccga 480
 gctgacagca aacgttctat ggagagaatg ggggtggggt cgagtggggg cacacgcaca 540

<210> 408

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957003

<400> 408

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 ttatcaccaa cacaaggaac tcttcgaagt taattgcgtt gtcactattg acgtccaatt 180
 ctttgaacaa gctttcggtt tttttattct gcacaaactg agggcactca gtagtgacca 240
 ttttcctgaa gtcacccctg taaagggcct ggtgattccc ttttatacca aaataattgt 300
 ggtaaacttc aatgacgttg ctcaaggcct tctccaattc aattgccatt gtcgataaaa 360
 atttcctttc acacaagggtc tggacc 386

<210> 409

<211> 421

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957071

<220>

<221> unsure

<222> (1) .. (421)

<223> n = a or c or g or t

<400> 409

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aggatggacg tggagaaagg caagattgaa gacactggag gcagtggcgg ctccatttcc 180
atcaaaaccc agtttaactc tgaggagcag tggacaaagg cgctcaagtt catgctgacg 240
aatctcaagt ggggtcttgc ttgggtgtcc tcacagttct ataacaagtg acttgctcct 300
tacgggatat ttgcctttaa gggtttacat tttgtttggg ttggaaagat gctttaaatt 360
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g 421

<210> 410

<211> 392

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957202

<400> 410

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gagattacaa aactggctat gtacatgggg catcctgggt ttgagtcgtc tgtgcacaca 180
tagtgggcat aggaagtctg gggctctaaag ctcaagcagg gatagggtga gcgtagactg 240
gggcacccca ccaggtagag ccgtcccca cctcaagca tcatcaccat ggagaccagg 300
ctccaggga accccctagg tttctccata gagacagatt ggcacttagg gatcgccaca 360
aatgggccac tgcgatttct acaaagacag at 392

<210> 411

<211> 265

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957335

<400> 411

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agaaagaagc atgtggtaat aaaaataata gagaattatt ttcttcagat agtcccgtc 120
tgctgcgaac cgccagcccc tccagtccag ccccttccag ccagctctca ccaggcctcg 180
cggctctctc atgagcagcc gctgaccgg tatcagtccc actatgtaca gatatatattac 240
aaggcaaaaa gaaagcctcg tgccc 265

<210> 412

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957410

<220>

<221> unsure

<222> (1) .. (557)

<223> n = a or c or g or t

<400> 412

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tgcaagttaa ggggatccca agacccttc ttcaattgta ggaatgtgcc atctcaagac 120
tctatagtca aactgtaaag aagttcagat gtaaagaaaa atgaaaatgt aatttcttca 180
taaacgttct gttactacta atcacatatt ctcttgtaaa ccctgaaaaa tttccctgta 240
aagcaaataa tatatatata atatacacat attatatata tatagtgtgt gtataaagta 300

ttggtagctc cccttcccaa gagatcagct gttttcctta atcatctctt attagtgtcg 360
 acaaacagct aagatacata ttactttgag aattaaatac ataattgtga aattcaaaca 420
 agccaaaggg caaaagcact atgtggatgg cacacctgng gtacatcacc agagtatctt 480
 tctttctgcg ttgccacctc cctcttttgc agactgactc tcaccaaacc cctcttttat 540
 tgcaagcaca gctcca 557

<210> 413

<211> 454

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957433

<400> 413

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 agggaggtcg agcgactctc tcaagattat ggtgctcata aatggagcca aggatgccag 180
 ccaccgtgct gccatgctgc cctcggaact ggagccattg gttactcttc tegtgtctat 240
 gacgatatac ctgacaaagg caactcaagg aggggaaggt ttctttggat gacagctcag 300
 gaatacagtc cgttgttggt ggagaggtgt ggctgcaaga gcaaggaagc tcacattgca 360
 tccataatca ggaaccagag aacagggagt gctatgctgt gtcacaaaaa gctcagccag 420
 ataaaagtgc tcagccaaaa ccaaaaaaaaa aaat 454

<210> 414

<211> 337

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957452

<400> 414

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 tcggcgagtt atacagaaag ctctgcggtt caaaaaacta gacgcttttag taacaatatt 180
 acaaaggctt tagcttcaaa aataaccgaa aatgaaaaaa ataaactttt aaagaattag 240
 catcataaaa ttaattttatt ccaagtaaaa atacaaaata atattatgac gttgaccaga 300
 tatgaaagtc cctcccagaa acaactctag taatgat 337

<210> 415

<211> 555

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957708

<400> 415

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 ctgtaagatt tttaatgaac aaaagagtta aatacaaaact ttcatatgca aaatagatga 180
 ctgtaaaccg ggcaacctca gagccgagca cgaatctctg cgaaggctca gtggggctgg 240
 agtagagcat gctgctgagc cagacttaat tcagcttcat atatatttaa aaaaactctg 300
 aggaaaaata ggcttaaata gaggagcatc tcctgaaata cagctcaagc cagcccttac 360
 cactgtgagc gcaggctcac caacctcggg ttgtacattt atggtcacag ttactttgaa 420
 tccagtttca tgaggaagcc aagctacttc agttctagag aagaaagtct tgaagatgag 480
 tgtgccctgc tgtgaagact cacggaccac gttccttggc cactttccat gaactgtgcc 540

cgtgtcatag catca

555

<210> 416

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA957906

<400> 416

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gtcaagtaac aaacgctcca gggagtttcc tatagatata aattatgcaa atatccattt 180
atatcttcat ttacaataat caataaataa gagcgcacat tcgtacattt tttttacaaa 240
gatccctttg ttttttttat aaagctataa ctatgcacag ctaaataagac aaaataagcc 300
ttgtaccaca aaataacatt ttgcttttgt ctccaaccgt tctgcaactt tcaggcacaa 360
gccacgaggt cctcccactg tgccattaag aaaacatcaa gtctgtcaac tatatcccag 420
gccaaaagac aatgagacac cggtcagtct tccaagggtg tactctgaac agcgtcctgt 480
atccaggcct aacaacc                                     497
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<210> 417

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA963369

<220>

<221> unsure

<222> (1)..(525)

<223> n = a or c or g or t

<400> 417

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tatccttctt taaatttttt tgctgtttta aagttttttt tacaaagagc ccttatgata 180
atggtcactt ccattgtact gtcattcacc taacagcagt agagatccca ggagtagcac 240
ccaaaactca ggtgcccac agaggacaga agcaacagca gaataatatg ctgagcagta 300
caaaaanaaaa aatcagacaa aaaaacaaaa cctcaccaca caattgtacc tgagtgcacat 360
aaaccggtaa aagtgtgact ttgctttttc atttttctct tctttttgtt ctttggctctg 420
ataagaaaat gaacagtttt gcgtgtggca agtcaggtaa taaagatcag tctccagttc 480
agaaccctaa atcacaccta caaggctgct gcagcactgt ttctt                                     525
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<210> 418

<211> 328

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA963372

<400> 418

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ccagccctcc tggggagaaa gtagcttccc cgtgctccaa ggactaagcc tctcctcaac 180
cccaccccaa cctcgtgtcc cagggcccaa ggcttcttgg taggcctctc tggaagtcag 240
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tccgcgggct ccctgaggat aggggttttc ctgcagctga gctggggtttt ttggggggagg 300
gggtgtgtgt ccacagtctt tctcttct 328

<210> 419
<211> 345
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA963703

<220>
<221> unsure
<222> (1) .. (345)
<223> n = a or c or g or t

<400> 419
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aaaagtagtc ttccggtggtt gggaagcctg gcctcccaac accagagtca gtcggagctg 120
gtttttttgt tgaaaggagt gggcggtggt gtgggggacc gggatgaggg cagaaccccg 180
ctctgctggt agtcttgggt ggagaagacg aactgcactt gacagagcct ggggtgcggt 240
gggagggggt gaggcangag tgacaagctg gggaggggac ccacctcagt cnccagctcc 300
attctctctt aatgtctctc cactggtggc gttctctgca gtctt 345

<210> 420
<211> 477
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964004

<400> 420
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ctttgggaaa aaaaaagtct caaaaattta cttcccttgt tgcaaaagtg attttgaaat 180
gccatattat tcattaagca ttaattaaag aacagcagga taattactag gatcatcaat 240
attaccagaa acattagatt gctccagaag ggggcaactt agcttgaaac tataattttt 300
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tgtaacttta aactattggt tggaaacacg ctcttccatt tttattttat taaggaaaga 420
caatgggact cactttgacc cagtagttat ccagcttctc ataggaggga agtgacc 477

<210> 421
<211> 187
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964139

<400> 421
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cagaacaaag accaatagaa aatgcactgt atttgaatct cactatccta tagaaaatga 120
acggtgtaca gcatctgttg gaaaaatggc tgcattgggca ctttaaggcc aacttataaa 180
taaaaat 187

<210> 422
<211> 281

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964181

<400> 422
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tatatatcat tccagtgtcc ctttccagac tggactgagg aaataggaat tggtttcatg 180
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ctctaagtca cagtgtctct ttctccacac tgttatccaa g 281

<210> 423
<211> 531
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964275

<400> 423
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tccaccacag aggtgctaata gtgtgttgtt ctctagaaga ggtaagtggg tgtctgtgtg 180
gccatccgca aaggggacag aatggacggg cttgtaggat ccaagtctga aacgacagca 240
aattatttcc actataaatt ttccaattcc atgtaacatg cctgttggtg aaaagattcc 300
tccaataata ccacagagtc ttacaaaaaa ctgccagaaa ggcattgtgt cctcagtgc 360
tgtcaccatg tgagaactga gatcgtattt cataaatatt ccagagacgc cgtggctgcc 420
tgcagcatgg ttgatgatgc gttccctttc tgtcacagag aactgatggg tatctgcgga 480
aatcttgtat gtgtgtagct ttgttggcac aactgtaatg aaatattgga a 531

<210> 424
<211> 458
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964302

<400> 424
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cagctcagag tgggtgtgcg ctgcctcaga tatgagctgc aaggctgccc ttggtgtctg 180
tagggcgctg gctgattgc tgtgagctag gtgggatgat gcccactg ccctggggac 240
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caggctgtgg ctctggcac actgcacagc tggaagatca cattgactgt ccttgtgtcg 360
gctgccgaat caggtgaagc actgagctgg gggtagagg ggtacagggc ttgttgggct 420
gcgtacttct gtctcacact cgtgcattca ttccctgg 458

<210> 425
<211> 438
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AA964336


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cactgcagga accatcgcac ttaagctcgt gtgagaccca ggcagctctc gtcattgttcc 180
cttggcttaa ggagaggtag atcatcagca ggaaggtana gaggacgctc ttcaacagag 240
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tgtcatacag cctgccccaa acggccacta gcatcttctc ccaaaacatc tcagggaactg 360
gcaaggggca agcgtgacag acactggata gatgtttcta gaaagcagtt catttcacag 420
aacctgctta acgggacagg acgcccttct aacggacctc tgcacacact agaacactag 480
agcactgtcc gcctcatc 498
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<210> 429

<211> 367

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964514

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ccagaggcca gggagtcac ttggtgaggg gagtcccggc acggccacct cattcattag 180
tcaaagcagt cctgaggtgt atacctgggg tcctcttcag gggctctggc tttcacaagc 240
acttagttcc atttgatctc ggcattgcct tatacacagg agctctatca cgtgttactt 300
cagagtgagt acagggcctc gggtagcctc gagcgcttct tggaatctgg aattggccct 360
cgtgcgcg 367
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<210> 430

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA964688

<220>

<221> unsure

<222> (1)..(537)

<223> n = a or c or g or t

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<210> 431

<211> 437

<212> DNA

<213> Rattus norvegicus

<220>

Figure 1 consists of 12 subplots, each representing a histogram for a specific value of k (from 0 to 11). The x-axis for all plots is 'Number of non-zero elements' with major ticks at 0, 20, 40, 60, 80, and 100. The y-axis is 'Frequency' with major ticks at 0, 2, 4, 6, 8, and 10. The histograms show the frequency of non-zero elements in the rows of the matrix A_k . The distributions are generally centered around 50-60 non-zero elements. For $k=0$, the distribution is centered around 50. As k increases, the distributions shift slightly to the right, with peaks moving from around 50 to around 60. The spread of the distributions also varies, with some being more concentrated than others.

<221> unsure

<223> n = a or c or g or t

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<213> Rattus norvegicus

<223> Genbank Accession No. AA965031

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<211> 201

<213> Rattus norvegicus

<223> Genbank Accession No. AA965075

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 <211> 498
 <212> DNA
 <213> Rattus norvegicus

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<220>
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<210> 437
 <211> 414
 <212> DNA

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28°C. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The strains were then mixed with the plant cells and cocultured for 48 h. The transformation efficiency was determined by the number of transformants per 10⁶ cells. The data are the mean ± SD of three independent experiments.

<223> Genbank Accession No. AA996451

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cagtcggtca	agcaggacat	agatgctggag	cccttttcaa	atgacacagt	tattctgaaa	180
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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<211> 436

<212> DNA

<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<211> 373

<212> DNA

<213> Rattus norvegicus

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<221> unsure

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124

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<212> DNA

<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AB005900

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<213> Rattus norvegicus
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162

<223> Genbank Accession No. AB006450

<400> 475

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<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. AB006461

<400> 476

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<213> Rattus norvegicus

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<223> Genbank Accession No. AB010429

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<212> DNA

<213> Rattus norvegicus

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<400> 479

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<211> 1902

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<213> Rattus norvegicus

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<223> Genbank Accession No. AB010635

<400> 480

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<210> 481

<211> 2318

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AB013732

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<210> 482

<211> 1356

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF001417

<400> 482

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<213> *Rattus norvegicus*

<220>

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<210> 484

<211> 2261

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF012714

<400> 484

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<210> 485

<211> 2436

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF013144

<400> 485

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<210> 486

<211> 669

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AF016387

<400> 486

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<211> 2225

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AF020618

<400> 487

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<211> 3769

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AF025424

<400> 488

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<211> 6331

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF026505

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<223> n = a or c or g or t

<400> 489

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<210> 490

<211> 1892

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF034218

<400> 490

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<210> 491

<211> 2015

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AF036537

<400> 491

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<210> 492

<211> 1884

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AF038870

<400> 492

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<211> 1305

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<213> Rattus norvegicus

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<211> 1076

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AF044574

<400> 494

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<213> Rat

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<212> DNA
<213> *Rattus norvegicus*

<220>
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<211> 2465

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AF072892

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188

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<211> 570

<212> DNA

<213> *Rattus norvegicus*

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<400> 503

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<213> Rattus norvegicus

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<211> 1778

<212> DNA

<213> Rattus norvegicus

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<400> 505

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<210> 507

<211> 466

<212> DNA

<213> Rattus norvegicus

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<400> 507

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 <213> Rattus norvegicus

<220>
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 <213> Rattus norvegicus

<220>
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<210> 510
 <211> 496
 <212> DNA
 <213> Rattus norvegicus

<220>
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 <223> n = a or c or g or t

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<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

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<400> 511

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<210> 512

<211> 454

<212> DNA

<213> Rattus norvegicus

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<220>

<221> unsure

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<210> 513

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI008699

<400> 513

姓名	性别	年龄	职业	住址	联系电话	备注
张三	男	35	教师	北京市朝阳区	13800138000	
李四	女	28	医生	北京市海淀区	13900139000	
王五	男	42	工程师	上海市浦东新区	13600136000	
赵六	女	31	护士	广州市天河区	13500135000	
孙七	男	25	学生	深圳市南山区	13400134000	
周八	女	38	公务员	武汉市江汉区	13300133000	
吴九	男	45	经理	成都市高新区	13200132000	
郑十	女	22	职员	杭州市西湖区	13100131000	
冯十一	男	33	司机	南京市鼓楼区	13000130000	
陈十二	女	40	会计	昆明市五华区	12900129000	
林十三	男	27	程序员	长沙市岳麓区	12800128000	
黄十四	女	36	销售	贵阳市南明区	12700127000	
徐十五	男	41	律师	海口市琼山区	12600126000	
马十六	女	29	设计师	海口市秀英区	12500125000	
朱十七	男	34	厨师	海口市龙华区	12400124000	
李十八	女	43	保洁	海口市美兰区	12300123000	
王十九	男	26	快递员	海口市琼山区	12200122000	
张二十	女	37	保安	海口市秀英区	12100121000	

<213> Rattus norvegicus

<223> Genbank Accession No. AI008773

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194

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<212> DNA

<213> Rattus norvegicus

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<211> 467

<212> DNA

<213> Rattus norvegicus

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<210> 521

<211> 458

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<213> Rattus norvegicus

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<210> 522

<211> 358

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI009321

<400> 522

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<210> 523
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 <212> DNA
 <213> *Rattus norvegicus*

<220>
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 <212> DNA
 <213> *Rattus norvegicus*

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<210> 525
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 <213> *Rattus norvegicus*

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<210> 526
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<212> DNA
 <213> Rattus norvegicus

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<210> 527
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 <212> DNA
 <213> Rattus norvegicus

<220>
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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<213> Rattus norvegicus

<223> Genbank Accession No. AI012174

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<213> Rattus norvegicus

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taatataaat ttttactacta gaaagtatac attggaattt gagtgcagtg accaggacag 120
aataaaagcc actgtactgg gaggccaaagc aaactgcagg catggctggg tgagggtggg 180
gacaagtggg gccaaaggga ggggaagtgg gccgttccaa gggctcacta tgggtgatta 240
accagatac agacttccca gaacccttga ggtacaacac ctgccccaga gaagccctca 300
ccttgttcct ggggtcccag gattggaagc catcaacatg cccacgcctt gccttcctaa 360
ataccctttc agtttatgag ttcagcttat tgtgtaacta aagaacctgg ccagggaagg 420
gagagcaatg actgcctcga agcagaaggc tgggggtggc aaggcaagca gtttgtcttg 480
gagacaatgt cctcactgcc cttaattcag acactgggta actggagaaa aacaattcca 540
cagacagatc agctgagtaa ggtggctttg agtcaactgaa tctagccatg ccctgtatc 600
aaggaggagct tgccttgaac cactcagtg tcaagt 636
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<210> 556

<211> 523

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012498

<220>

<221> unsure

<222> (1)..(523)

<223> n = a or c or g or t

<400> 556

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cactcttagc cagtttatta agccagggtc tcaccgtgga tccagaaggg agaaggcagt 60
agatcccgtg accctccttt ctacgtcttc accttctcca acaactcatc tacagcccag 120
ccccaggac aagagccccg gaagcatggc tggcgttagg cataaagaca agaggccaca 180
gcttgaatca gcagcgtcaa gggggcaggg acactggaca agaaaggatg gctctagggc 240
acctgtctca gggcttgtcc tgagcccatg ggtccaacag agcaagagac aaaggaccag 300
tgggctgccc tagggctctg ggctacagcc ggccctgtcc agcgaggctg gcatgcagct 360
ccagggtact gcggaagagc agggacaggt gcaggcctta ngtgctgtta ccctgttcct 420
gttcaaagag cagcatggca agctgggtgc gggagccaag gcctcaagca gctctggcga 480
cagcgggtgat aaaggctctc gctgagccga gcgctgcatg gct 523
```

<210> 557

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012574

<400> 557

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aaaatacctt aaaagaacag ataaagtact tgagggttaca tatccagaat tgaaaaagaa 60
tgaataaaat ataaattaat tgatcacata gctattttgc cacattagac aagtttttaa 120
aaaatgcatt tcaaaaacaa taaaaatagg aactgagaag aaaactttct ttctattgct 180
gtctttttcc ggaaagtctt cctcggagct ctaacatttc aggtttacag aaagtacctc 240
catcaatatt taaaatatac cacattttgt ttccaaatca gtccatttga gacattttaa 300
aaccagatga aataattcag tgcaactaa agcttcaagt tgaaaatccg agaggcaaag 360
tcacgttcaa actgcaggaa atgcttctgg aactgaacaa ttagaaagt cacattatga 420
agaactcttt gcatgtgtcc ttgggtgtgc gaaatactga gttagcaaac agacctctgg 480
aggctctggc tagggctctg tgttgactg tgggcagagg gaaggtagaa aagggtctaat 540
aattttaatt gtgggtgcaa gattaagtta agcatcaaaa tgttgggatc tgggtccaga 600
aaatttgct 610

```

<210> 558

<211> 631

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012589

<400> 558

```

ctgccttaca aactttatta gtctgggaaa aggggggacaa ggagttcctg tcccttcgtc 60
cactactgtt taccattgcc gttgatggga cggttcaaat ggtcagggga ggacagaaag 120
gccttgatct tggggcgggc actgaggcga gccacatagg cagagagcag ggggaagttg 180
tccaggcagc caggggccag gacttggtgg accagcagca ggtccagcaa gttgtaatct 240
gcaaaggaaa tctggttacc cacaatgaaa gctttgcctc cctggttctg ggacagcagg 300
gtctcaaaag gtttcagatg cccaggcagg gccttcacat agtcacctt accattctca 360
tagttagtgt agatgagggt accatatttg catcgaagg cctccacccc atcatcacc 420
atatccacca aggcagcctc cttctggtct ttcccataaa gccctaaaga gcgacccagg 480
tgccctcaaga tggcattaga ttggtaaagg gtgaggtctc catcttcaaa cttggggagc 540
tgcccataca gacaagtgga cttgagcgag ctttgaagcc agacatctat ggtaaccacc 600
tcctccttcc agctctggcc ctggtcagcc a 631

```

<210> 559

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI012747

<220>

<221> unsure

<222> (1)..(467)

<223> n = a or c or g or t

<400> 559

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agcaaagtct tttattcaaa agcttctcag caccatcgag ttatcagaaa gaatgagcat 60
cactttttct cccacccaa cccccaacgc agagacagac gttaaagcat tcaatggggt 120
gccctagtga tgacagttga gccctgacg aggtttaacc tggcccaggt gagccccaca 180
gttcagaaca ggaaggaatc atgtcagagc cgatcagcct tcccttctcg agctattagt 240
cacatgagac aaccttggtg aagttgaatt cagcagctgc caggtaggaa ggacagtgc 300
ctgtgcggca gcatgcagcg ttgagagttc aaatcctagc taaccctccc taatctactg 360
taggaacaag gagcccagga ctggtttgtc tccacacacc tcagccgctc atcttactgt 420
cttaccacan acacaaagac catgaccgtg gacaactaca tccaatc 467

```

<210> 560
 <211> 522
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI012802

<400> 560
 ggggaataaat acttttaaacc tttttctctt ataaatatgc attagaacat ttgacaacac 60
 aagctaaggg ctttgaatta acttaaaatt agactaagtc ctgcttttagc agcaggacag 120
 tcagttaaaa gtccctgtcc ccgtgttcct cagtcccgag gcaccttaaa ctggctcttc 180
 tccttgcgga tggccctcat ggtggtcaca gggtcggtct ctccagcgtg ctgctgcacg 240
 gtcttctcct tcaactctcat gaaggggttg taagtgaact cctctgccag ggtggatggc 300
 accgtgggct ccccgatggc attcttctcc ttggcccacg ccagtttctc ttgaacggcg 360
 gtattgccgg gctccacatg gcgcgcaaac ttaaggttgt ttacggtgta ttcattggcca 420
 cagtagactt ttgtgtctgg aggaagccgg cctaagactt caagcagcgc cttgtacatc 480
 tcgtctgcgg ttccctcata gaacttccca cagccagcaa ca 522

<210> 561
 <211> 615
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI013011

<400> 561
 gatttttagga cgtttattgt tacatttatt taattttttt gcagtaatag atgaggcaca 60
 aatacctcct gcctctccaa cactgcaaca aaaaggacaa tagtcaaggg taacagtga 120
 attaaaatta aaagtaaacc aaagcctaag gcctgggaga aaacctggct acaatctagt 180
 gtagaaactt gtaaaggact ccagcctcgt ctccgactg caccacttca cagatcacag 240
 ggtaggggtca cagagtaggg cgtcctgaca ggacacagcc aggtcagct cgccaggatg 300
 ggggcctctg cccatccacc tgtgttctgc tcagctagct caaggtcaca tcttgctact 360
 cacatgctgc cggctttcaa agctacatca tctggtcagg ctgtcagagg gacagcgctc 420
 tccttggaac cccacactc tcctcggtca cagtggcccc cagcagcagc tgggaacagg 480
 ttgtgtgttt ggcgtctcag cactgacaga tacatggggc acctggcaag ggatgctcac 540
 tgtgtgtgga cctgaaaccc ccaaggaacc ctgaaagggt gctggtccct ggtactaacc 600
 tggcctcatc ccctc 615

<210> 562
 <211> 602
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI013044

<400> 562
 atgtgttttt tttttttttt tttttcaatt ttaacacttt attgcaatta ttcaagtctt 60
 tccactgtt tacaaaatgt tcatttttat gggaccttta caagtttgtc ttcacaatgt 120
 ggccctctgcc cataggcctc acacaccact tgccctctgcc tggggacaga ggaggggaat 180
 gtgcatgcac aggagcaggg accaggatac acgattcgtt cttggggagtc atgtgatgtc 240
 tgcaggctaa caggacatct acttgtccag agagccagtc cctaccagg gacaaaggca 300
 taccacaccg gtagatatga aaacatagat gtgcacacat aacaaaacaa caacaaaagc 360
 catcaagtcc actctgtgcc gcacatatgc tcttgggtgt gtgggcatgc aatggagccc 420
 gatcaacctg ccagtggcta ctctgagag aaaactgact ctccctcccc tcagaagcta 480

tagctagcta atgagccatt ttcaataatt tggtatctgt tggcacctcg gccaccagg 540
ggcgtctctgc agtcagactg cctgaccctg ggaatcatgt gacttatctt aatgcagcac 600
tc 602

<210> 563

<211> 476

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013387

<400> 563

cacagccaaa gaaatttatt ttaaaataga aacaaacata cattaagctt taaacaatca 60
aatttttaaac aaaagggaag aagagccatt tgatcccaga gttggtacag aatgactttt 120
gtgtgtgtga aatccacgta aggagcacgt ggacaagctg acatggaaat ccatcatgcg 180
tgctcagggtg tccactggct gccatcagac actcatacac taagagctac ccttgactga 240
ctgcccactg gcaccattcc caagacccaa gtatcatgtg ggtatatggt caagtgttac 300
ggttccttct gaacacgaga agagagggtg ctcaacaggg tcttctttcc ccgctgattc 360
cgccaagccc gttcccttgg ctgtggtttc gctggatagt aggtaggagc agtggaatc 420
tcgttcatcc attcatgcgc gtcactaatt agatgacgag gcatttgcct cgtgcc 476

<210> 564

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013657

<400> 564

gaactaaata aaacctgctg tcttcagtag agagtaattt gtaacacaag tcatgtgaac 60
agacagaagt aatgtgaaca taccttattg ctgcattgtg acttggtgac aagattctga 120
gcctggctga ccatttggag caaacgggaa attctatagg ccaggacagt ttctagagca 180
caacaaaagt tgcagaaaat atggagaatt gcacatgggt cagtggcgtt acagaatcat 240
taaaatttca ccacatgaat gggaaccagt aatggccaca aagaagcaga actgagtttg 300
caaagctgag ccataatgggt cagtgcagtc actgcaggag acagacgagg aaggacggaa 360
ggacggagca cctcgtcagg tgtcaggact caaagtgcct tatgcaaaga aggctacacc 420
caaaacctag ggagagtcag accaaagcat ctgatgttgt atttaatgat aagatagtac 480
taagtcatat atataaaa 498

<210> 565

<211> 510

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013667

<220>

<221> unsure

<222> (1) .. (510)

<223> n = a or c or g or t

<400> 565

cccttataaa caagccaaga ttatatgttt ggagcgattt aatgtgaagg aaagcacaag 60
agttctattc attaaataac aatccaagga catccaacac tagtagcaat ccctaaacca 120
gaagacggaa cggaaatcct gaggtgcctg ttaccttcca attttcgaat ctgaagaaaa 180

agcacatgga cctcccagtt taactcctgc ggattactac ggtcctgaag aggggaggga 240
 tatcacggga gcgagaacac gaaaataaat aaaatcagtc aggaaccacc aaccgtagtt 300
 ccagcagcag caagaaaagc cagtctaggg ttccttgctt ttcacaactc tctccaggac 360
 gcaaaactct tcagagaagg ggggtgggaat caaggaaatg cagcataaac atcacagaga 420
 aggaagtga gttgagaaag agttcagact taactgtacg gactgctgac anacgaagtt 480
 cacttcatga aacaacacaa caccctcgtg 510

<210> 566

<211> 407

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013690

<400> 566

aaaaaatat ctaaattttt gtattggggg gagggagtaa aaaaaaagc agcccctaaa 60
 ctggggcccta ttcaatggca acttcttggt ccaaagggtt aaggaaaact ttgaggaaat 120
 aaaagttggt tggaaaaatc caggtgtaat tgctttgtat gctgtgatgg gtaggaaaaa 180
 tgaagtgaag tgtgaaggcc cctcaaacc ccatcttgc ctcaaactat gtcctggaag 240
 cctggggcgg aaaaaacgcc actttcattc ctgcttcttg gggttattta ctgccacgta 300
 gtgatagagg accacaagca agaaaagcga cagcccaac atgttggcga aaatggcgaa 360
 ctgcacgtcc gtgatcatcc tgactagctc caccgactc cgaccct 407

<210> 567

<211> 428

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013745

<400> 567

aaagatttat ctatataagt acacagtagc tggcgtcaga cacaccagaa gagggcatca 60
 gatcccatca tagatgattt taagccatca tgtggttgct gggatttgaa ctccaggacct 120
 ctggaagagc agtcagtgtc tttaaccact gagccatctc tccagccttc aatagtattt 180
 taagctcaag atattaatgg tccagtatat gacagagaaa catgggaaca gattttaaag 240
 tggggataag aattacgcat ttattgttac tgagaggctc catagtcttt ggacagaatc 300
 accatcaagc aaaagcttat ctagttaaagc tttaggtggc cagtaacttc atcaattagt 360
 tctactggtc ctggcccaat tcccaggaca gttcgagagc ctggttcaat ctgagtacgt 420
 ccggcatc 428

<210> 568

<211> 584

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013778

<220>

<221> unsure

<222> (1)...(584)

<223> n = a or c or g or t

<400> 568

tcatcagaga catttattga gcacttagag tttatacat tgtaaagaac ccaggcaca 60
 tcttcccctc aaagggcccg tggacgtgta ggaaacactg gcaagacact ctggtgttct 120

```
cagaaacaaa ctagctatta agtggagaag tgagtgtaac atccagtcca ctgtggtcct 180
aaccatagtt ctgctcttcc taatgaggca ggtatgaacc ctttttctc cctccaccac 240
actcacgagg caattgagtc tctcattgtg acagtacatg gagaagctga cttcaggatg 300
gtttgtttgt ttttttccat ctctttcctt cgggtggaatc gggccagcct ctttttgaag 360
gagaatatta tttcttttac gaatttggcg ccgaggtaga gggaccactg aagagagatt 420
taagacagat aagactggca aaagcacaga ttgcctgcca caggaggacc tcctaagcct 480
taggatccga gggtaccttt ctctagagac cggatagaaa tgcttgagga caggtaaggc 540
tctctccan aagagaggtc acaggcctca tgatttgcac aggc 584
```

<210> 569

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013832

<400> 569

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cctatgctgg ggtttactct cccaagcca tttccacac tctagaagca cagagcttcc 60
acaaataagt tttttttttt aaaagccatc tctgtataga aatcagactc tgccccaaca 120
ttatcatagt ctagactatt taaaaacctt cacattttta ttacacctgt tctgtatttc 180
cccttctctc ctatccttac caaggagctc tggtactttt ccttaacaga ccctgaagga 240
gtaagatgct gtagaagggg tgatgggctc ctcatagcta ctggcaccag cccagttgt 300
tgtgtcttgc cactgggtgg tggaccgctt ctccccacc actggagatt tgtaggactg 360
gtgcataggc aaggagagac acagaatgcg gtgggtgggt ggggcaagac cccacagcta 420
caggcgtctg tatcatgtaa ccgctcgact tgagggtgac tggctgaaat caagagagat 480
cagtcca 487
```

<210> 570

<211> 568

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013861

<220>

<221> unsure

<222> (1)..(568)

<223> n = a or c or g or t

<400> 570

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atcaggatag aaatttattt aaatccaaaa taatatgact atagttagaa taatataata 60
attatctaaa ggaaatatca tcattggctc tgaaacagtc taacggtgtc atttttctgg 120
agtcaaaaac atgtagtaaa aggatataca ggaagcaaaa atacagaagc aagccggctg 180
agtgaggaag ctgtaacagg aggttacact aagatactgt aacaatcgag acaggaagac 240
aagtatagca agctgtctta cctatcaacc cctgcacagt aagtcagtaa cccagaatga 300
aggaataata gcacgtggtt aacaggacaa atttccctct aatttgtctt tgtaactgat 360
ttctttcctt ttttaccatg ggttccatct gggttaacaaa acatttgggt ttatttgtaa 420
agcagagtaa ataaaaatc ctgatcagag tgctcaattt tgtttaagggt gctcaagggt 480
canacttaaa aagggtcaact gggctagtca gtgggaacca ttgggtgtgt ttgctaaaca 540
gatgaaagca gcagcattta aatggat 568
```

<210> 571

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013875

<400> 571

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catgtgtttt tttttttttt ttttcatacg tcggaagcgg gagagatcag actaaagatg 60
ggtgggtata cctgggtattt ggatgagatg ctctgtggga ggctcgcagg ggattcgagg 120
gtggccttta taaaatgggt ttattttcta gctgtattta aaggggtgtt taacattacc 180
tacttcatta aaaaacaaaa acgccccctca ggaaatttag atacaattgc gctagtcattg 240
gttggcatct atgagagaga gcaactgcat tctgaatgag taaaacggac gtgtgcattg 300
taatttactt ttcctatgtc cccttcgaga ggggcaaagt aaaacaaaga aagcagtgca 360
gttggctgag gagactgagc ttgcaaagca ataggtcttt ctgtccaggc agtcctacc 420
ccttcagttc cattccattt tcccttggga ctaaaagctc tgctctgtct catttaaagt 480
cttgtcttcc gg 492
```

<210> 572

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013876

<400> 572

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agaactccca ctagaaattt tataaatata tatgcagcat atatatatat atatattata 60
tatattatat ttgcccacca atagattctc agcaagtctg gctgaaatga tgccatcatg 120
ataaatatta acaaaattag tgagttttca caggttttaa atatttcctt tgaaaaataa 180
taagttcaac ataataatg taattttag ctcacacaat ttaaaaagga gagggagata 240
cctttcttag aacagtttcc agcccccaa tgtgctaagt tgctggctga gttgcagcac 300
ttggtcaaca ctggaaagaa gtatttatgc ctctctggga aggtaccaa cactgaagaa 360
aagagagaag agaccccaa cagtcaggga gcattcctcc ggcgtgcaag gtcagcagga 420
aagggtctc catgctgctg ctgacactca tgatgagtc tggaagcact cagttacaga 480
```

<210> 573

<211> 694

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013911

<400> 573

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ataatcagga cagtgatctt taataaaaaa catctctagt aatcatgatc ttgatgtaga 60
ttgttcatag gtacattcag aaatcacttt ctggccatga gaaaacatca tttacaaatt 120
tttaatgtcc caaaatacac attaatttaa aaaacttgat ttatcctggc cacttttttc 180
tcttgccag caacaataat cctgagtgcc tcaacaaaaa ttctgataaa aggaaaaata 240
ttgggaccgt taacaaatgt cttaaaattt gtcttttaaa gggggaaaag tgttttaaga 300
acacatggag ctttcttaaa gttctttaac aaactacctt gggagctcaa ttcaaaaata 360
gaacttgatg tactaaaaca gacgtttcag cgcagctcca aaaatcttta taaatacagc 420
aatttgcaag gacgatcctg gatcagaagt gttattcctt gtgtatattg tgtgcatgcc 480
ccatctcagt tgtcataatt gtctctgtaa tttcctcctg agtagcggtc atagccaccc 540
tggtctctgc cactgtagtc tctagaccgc ccatacccat atccatagcc tccaggctcg 600
ctgtcgtatc ttccacttcc atatccctgg tctccaccac ctctagagta gctgcgacca 660
cgccccatggg ccccaaaagc accccctctg ggtt 694
```

<210> 574

<211> 685

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013918

<400> 574

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attagaattc ttttaataga tataaaaaag tactaaaata cttgtgtggt tctgctgtgt 60
tatttgccct aaaggaagtg aggggcagag tgaagaacct aagtgcagct ggggtggcct 120
ttccttaggc taaggcatgc tcctcccatc atccagactt gtgagccctt gctgcccagag 180
cccccaattc ctgcagcagg aagccccagt ggtctggctc tggcactggg agtagaaggc 240
acctgtaggg ctggctgggc aagtgaggac aggtgacctt taacacaaaa tactactctg 300
gtatggggag caggacatgt agctgaagca gctgtcgagg ccctgcacct ctatggcaca 360
cgtggatgtt ggatggccac ttctccggga gcgaggaagc ctatagccca acaataactaa 420
aacttgtttt tggtaaaaaa taaatgcaaa gaaggtagat gagggccacc atgaaagcac 480
ccatgttgcc aatgaggctg aagaggcagc tctctggggg gtatgtgcca cacttgctga 540
tgagaggaac atcatccagg gtgcagcagg tcttagggcc cccttggtca gcagggtcag 600
gagagcagga atcattgtag gaccagttct ccactgggca cacgtggcgg ttcattcacag 660
ccatggcata cacagtcctt atgcc 685
```

<210> 575

<211> 400

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI013924

<400> 575

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gacagttgga aacaaacca tcaaactgga ggtgatgaca tcccaaaagc ccaagaggca 60
aggggggttg cattttaccc cctctactta aaaatttttt taattaaatg catttttagca 120
aaagtgatta aaaaaagaaa aggggtcaaag cccagatgt cagcgagcaa ggtggtggct 180
caggaaaaaac gggctcttca gtcctcccag gaagtagcct aaaagctgcc actgtccctc 240
agacacaagc tcgagcaacc caaccaatcc tccctgggca aaaggccctt gtactggccc 300
ttgtgtttcc taacccttcc aaactcgga actccaatc tgtgtcaagc cttccctgta 360
ccctcaaagg gaagctgaaa gggccctgga ggaggacaag 400
```

<210> 576

<211> 126

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI028938

<400> 576

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tttttttttt tttttttcct taaaaaggaa accatttaat gggccccccc ttaaattttc 60
aaagggtcag tccattatca cagcaggag caccgggca ggcaaaccct ggggttgacc 120
tttaaa 126
```

<210> 577

<211> 445

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI028973

<400> 577

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tttttttttt tttttttcca cagccttatt ggcacccca tgttttotcat agctcacgaa 60
gccgaagcct ttggacttcc cactgcagtc tctcatcacc ttgacactta aggtcttacc 120
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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029026

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ccggtatcaa agccggaggg ggtggcctgg atccagaact gctgtgagcc agcatcccag 240
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<210> 579

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029212

<400> 579

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gtgtaagcag tttgttctgc catgtgtgcc ctgccactgc catttggcac tgttgccaga 300
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<210> 580

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029291

<400> 580

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cctttaatgc cagactcaga aactgttatg accctagaga acgaggggag gctgtatgca 360
caggtgggag tctgatggct tagctatttg cagcatcggc ttggcgaggc catccgtcct 420

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cctccactcc agagtcataag tctctttccg aggactcttt cgatggagcc cgaatgtatc 480
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<210> 581

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029450

<400> 581

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aaaggacggg agaggcttct gtttcatcca tcagtaactc cgaccaaaca aggtgtagaa 240
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cctggccggt gtcgttttga tccagtcttc acagtcaatt tccccacaga atggaatctg 420
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<210> 582

<211> 240

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029709

<400> 582

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<210> 583

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029827

<400> 583

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<210> 584

<211> 323
 <212> DNA
 <213> Rattus norvegicus

<220>
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 <212> DNA
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<220>
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 tggtcagagg taagggagat cggctggctg ttggagatgt gcaagtccac gggttttcagt 180
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 aacccaagag tcaggctcag aaagaaaggg tcacagttac agcagccggt tcctggactt 420
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<210> 586
 <211> 319
 <212> DNA
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<220>
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 <221> unsure
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 agaacagcca gagcaggtga gtcgaggtgt tctgggtgac ttggggctca aggtatcaag 180
 gtaactatgg caggctcgga cagcaagaaa gaggctccag gagaatgaga tgatgttccg 240
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<210> 587
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 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029969

<400> 587

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aggaccaatc caagtagcaa agagggggag gcagagaggt tagaaagcag tcacaccgtt 240
gacacgaaaa gaacaacgaa tacacatttc tgtattttga aggcaattca caatcatttc 300
caggaattct gtgagaattt aaggccattt gttctaaaga aatgtagaca tgacttcaca 360
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cagatcaggg cggaggggtg ggctatttca cacacaggca ggtcgggcca caggggtgag 480
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<210> 588

<211> 147

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI029996

<400> 588

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cattaatgga ggaaagttcc cacatttaac acaacccaaa acggctggtt caagagccct 120
cttcagggtga gctgggtagc atgcctt 147
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<210> 589

<211> 394

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. AI030024

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<221> unsure

<222> (1)..(394)

<223> n = a or c or g or t

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acttttgtac atccttaaaa aggggggatat atttccttgg aaattcagca atttggtcag 180
ggcatggata gcaggggttt gccaggtacc tctacactaa gcacccgaat ggccccaggt 240
tgcttcagag gttctgcagt tactgaaagg catgaggatc cacgtaaaag gcanagagca 300
actgggtaaa ctgctgcaca aaagacttct aactgtattt tatcggcttg cagactggga 360
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<210> 590

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030069

<400> 590
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 tattcagctt cagtccctgct cgcagaaggc gggcttttctt tctgggtgtt tgtccatggc 180
 tctcagtcgt gctattttat ggtctagact cttaatcatt ggtgggcttc gaggtcttta 240
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 cgacttagga ctccaagcag cgtagcgttc tgatgaccgc agaatgctga ggtcgggtga 360
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<210> 591

<211> 192

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030170

<400> 591
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<210> 592

<211> 399

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030242

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 caggccttgg ctttgaacgt acccgttccc ccacatgctg gcccttccc ctggtccctt 180
 cctccctaaa cgctcgtgcc tgacctgccc acaggcagct actgccctcc agcagagtac 240
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 ggagcaagga ccttcagaaa gatttccttg gggcacgtcc tgagtggggc gtgggggcaat 360
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<210> 593

<211> 372

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI030259

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 cacctaccac caggaagctg tgcataccca cgcctcgagc cccctggtaa tcacagcggc 240
 aactatcccc aacgtgagct gccgccgaag gctctacaca agcgagttgc aaagcctcac 300
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00827660

aatgtttctct ca 372

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<212> DNA
<213> Rattus norvegicus

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ggacatgtct atataaaagg tatttctaga aaaaaaaaaa acccacaata aaatcaaattg 180
agccaaacaa aacataagaa gcctttggta cttttcaata acaaaagaga aacatattta 240
gatgattaaa ttcacacaat atgaaaatga aatattgggt taacttcata aagcagaaaa 300
ggagagccta aagaatatta gcatccaagg gcaaaacttc ctttttctcc tctttgattt 360
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gatacctagc agtatggcgt ttcccactca cctgatgttc aaatggcact gtctggtcat 480
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<210> 595
<211> 394
<212> DNA
<213> Rattus norvegicus

<220>
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acggcgagct catctttttc cagtcactag aaga 394

<210> 596
<211> 447
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI030668

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tcagctatta agtatgatct tactggaaat tcttaaccac aattttcctt cctggaatga 360
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aacctgttct accagctgaa acagctt 447

<210> 597

<211> 398
<212> DNA
<213> Rattus norvegicus

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<212> DNA
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<220>
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<212> DNA
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<220>
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<211> 410
<212> DNA
<213> Rattus norvegicus

<220>
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cctcactgct gttggactcg gatgtggacg cccagcggca gtgagccac acatccttca 360
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<211> 370

<212> DNA

<213> Rattus norvegicus

<220>

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<210> 602

<211> 188

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043728

<400> 602

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<210> 603

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI043752

<400> 603

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accgttactc atctcacata aggatacaaa cccttccttc atagcttaga aagtacctcg 240
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<210> 604

<211> 346
<212> DNA
<213> Rattus norvegicus

<220>
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<210> 605
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI043805

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<221> unsure
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<223> n = a or c or g or t

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acacagaaaa atctgccacc atacaatctt tcaaaggaaa gctgtcttct ctatgtgtga 120
gaaagcttta acttattcct gttctaacat aaaccatggt taacaaacag atgcttgaaac 180
atgtgccgga atttagatta ggcaaggaag ttcactccac ctagcaagca agtctgaaat 240
atcatctttg ttttttaaaa gtttgacctg aattactgaa atctaattgga ttctcatggt 300
cagtcatatg aatacgttat aatcagtaag aagtcagtat tgcacattaa gcttggacca 360
actcaagttt cttttttatg agttctttgc catatgtggt ttgtgaaaag cctttttcat 420
ctagacagta ttgcaaagat gtcatagttt atttgtctcc acagttttat ctacaggagc 480
attgcacgtt gcccgtn 498

<210> 606
<211> 323
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI043855

<400> 606
ttttttttttt ttttttttaga gctgaataat aaattacat ttatttatta ttaaaatctg 60
ataatgcccc agagagtaag gtgcctatta taggaagaaa atataatctt attacaccag 120
ccattaagta aatcatatac attgccactc atgtatcata tcagcctgct tggactgcag 180
ttccttcgtg gatgaagtct gcaagtccca gccctgctgt agagccagcc gctccctgac 240
tggagcgtct ccatggctcg ctttctctggc taatctcagt attgttaagc acaatgggta 300
ttttttcctt aatgaatatg agt 323

<210> 607
<211> 487
<212> DNA

07-08

```
<220>
<221> unsure
<222> (1)..(471)
<223> n = a or c or g or t
```

<400>	610						
tttttttttt	tttttttcaa	aatcaccag	agctgtcggt	ttagtgcttt	ccaaaaatcc	60	
acagctccgc	ctagaaactt	ctggacgggc	tatctctaga	caaatggacc	aacctcttga	120	
ggatccagcc	ttcaggaagg	tctaccttc	cacccattc	caggcagctg	gtgaggctga	180	
aagcatggga	accaggcaac	acctgctttg	ggtggagaat	cagcacacag	gctgggcaga	240	
gagctttatt	ggagggatgg	agggcacgat	gttctgaaca	tgagttgagc	agagtattgg	300	
tagggagggc	ttaggtagcc	aggaagcccc	catccactgg	caaagcggaa	ccagtagtca	360	
tgctacttcg	gttgctcagc	angaagagga	tggtgtctac	cacgttctcc	acctcagcaa	420	
acttgccaaq	tqqgatacga	tccagcatga	ccttagcttt	gtgcgggtca	c	471	

<220>
<223> Genbank Accession No. AI044292

<400>	611						
ttttttttttt	tttttgtaat	cacacgagga	agattttattg	tgagcgagat	gaaacgagag	60	
ctcaggccag	catgctgggg	tcgagactca	tacaccacac	agggagtaga	ggagttcgac	120	
cccgcacctga	attttcacag	agcttataaa	ggaaaaaacc	acaaaccagg	gggatcaaga	180	
gggagggagg	aggggaattc	caaaaccata	aactgccctt	acaattttag	actttgtgac	240	
attgtgatta	ggggtagtga	cattttacag	ggccatttga	cgaatttggc	cggaggctat	300	
qggtcatttq	qgctqtgtcca	qgaaaccttt	catgcaagaa	tgttcgggga	accatt	356	

```
<210> 612
<211> 477
<212> DNA
<213> Rattus norvegicus
```

<220>
<223> Genbank Accession No. AI044325

<400>	612						
tttttttttt	tttttttgag	ttaatttttt	ttaatcttgt	tgtttcatto	tgtatcttaa	60	
caaaagcaaa	tgcattgtaa	caaaagtggg	ttgaagcgta	tcacatttaa	cttctgtctc	120	
ccgccacaaa	atattttgtc	ttttccttat	agtttcagaa	atcagtacca	ttaaagcctt	180	
aaacagaaaa	ctaattccaa	tctgaaaaag	gtacaaaaag	gcacataaaa	tcccagtgct	240	
tctgtactgt	aaaattcaag	tgtagctgag	ctcgggtgtt	tccagacagt	atcggatcac	300	
tgatattccc	tgggagccca	aactggttcg	cagcctacgc	caaagcctcc	agcaagcacg	360	
gtgctagtgg	actacagagt	taaagcctag	cttctgtatg	ctttttggga	atatcaggtg	420	
aaactgttca	tacgtgtcca	aaagccaagt	ccgtcctgcc	gttcagtcac	caccacc	477	

<210> 613
<211> 407
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044338

<400> 613

```

tttttttttt tttttttctt gccaaacata gaactttatt atatttctag ttgcgtccct 60
ttgtattaga ttcagaatca agtactggac agaataagctc tgaactatgt ccttgggcta 120
ataaggtttc tactccacct gataaactgg cttctatccc caccatgggtg ccagttggag 180
gcacttggat tacagagaaa cagcagctgg cttgaagagg gggttttagtc taaaatctcc 240
cagtaggaac acagaacaga ttgaacttgt gttggggagg aagggttcta cataccagag 300
tacgtttcag tttctcaaac cagaggggca cccaaggcac tttccctgtc cccactcatc 360
ccacaatcca ccttacttgc tgacctccac ctctgtgtgt caaagca 407

```

<210> 614

<211> 283

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044345

<400> 614

```

tttttttttt tttttttacc taatggaagc ctttatttta gccaaactga cagctctgag 60
ccaaagctcc aagtccacct cctggcccac tggtagccag aaaagataca caggctaagg 120
ttgtccccta aggggaaggg ctgaagtata tggcctgtgg gctgaagctg gctctgttct 180
gggcaatcca gtgtcccaga gagacagggc catcagatgt ctttttccat ccagaatata 240
gggcacccct tcagatctcg atatcgtgtc tctaacgggc ttt 283

```

<210> 615

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044404

<400> 615

```

tttttttttt tttttgtatc agaatacaat gttttattaa tattctaagt agatgcttac 60
atttaaatcat tctttatgct tcacaggtat tcagcgtttt tagaaacttt tttcatgtca 120
gatgccatta aacaccttag ggtttatgaa gacctgtaca acatgggtct ttttcagggt 180
ttcaggttgg tggagatgtc acacatacat acctccctgt actgtaacac agaaatcaat 240
aaatatcaca aaagaaccag ataccattgg acttgagaga cagaactcac tgctaggaaa 300
tgggagaacg ctgtcccacg agagctgaat ttgacttgtc aggagtaaag aggatttcca 360
tagcttgtgg tgaggactaa cgatctaagg aatgtaatac aaatgtatcg gaaagggcag 420
actaaattgt gaaaacaaac agttcag 447

```

<210> 616

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044533

<400> 616

```

tttttttttt tttttttaaa ttattcatgt ttatttataa agtcacattc caaaaatatt 60
tcaagtaata aatagttttt agcatttgtc acaatctgcc tgcttgggtg aataaggctt 120

```

ccaaaatcaa gaagggaatg tggattctgc aaagccttcc acagcaaacc tgggccccag 180
 ggaccctcct ggccttcact gaggaatgaa gataccactt gggagtccta accccgccct 240
 gcagtaccca ctggacccca agatgtcttc aatccaggac aaagcaccct atttttagccc 300
 taagatccac actaggcctc agggctgagg agaagcttgg ctcatgactg gttggagatg 360
 tgcttgatg ctgggtgcag gagaaacagc cactctggcc acagccagca cacaggttct 420
 tgtgtcagge tttcatcact gccatg 446

<210> 617

<211> 387

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044550

<400> 617

tttttttttt tttttttgag tactaacaat ttattaaaac aaataacttaa aagaaaaaca 60
 acataaaaag aaccacagaa gtaaaaaggc catttctcag ggggaggtga gggctggctg 120
 tggggcaagg gaagttgcta tattgaaatc agggaaatgg tctgccagta cgtcagacag 180
 gtgctgtctg cagagcagat ataagagacc cctcaggtga taatgacagg gtcattctct 240
 aaggagatag gacaaggctg agaaggggag aagatgcaag aaggacattg tgcggctga 300
 cacggtgaga cacaggttcc acagctgcta gcccgatatg tggttgggtg gctgctgtcc 360
 catctagtcc caagagatga cctttat 387

<210> 618

<211> 263

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044621

<400> 618

tttttttttt tttttctgct cacatgtaac tattaggtga atcaaatgaa gtgggaaatg 60
 aaagaccaca gtggaacgaa agtccccgtc cccgcctttc agtgcctttt acagtcactg 120
 ccagtccccc aactctctcc tagtaaacgg aaaagagtcg agtaactcgg tgggagcttt 180
 ggaatcttcc aaggctagtg tcggcagggc acggagtgga gaactgaagc aacgatctgg 240
 ataaatcgca ggggaatggg tgg 263

<210> 619

<211> 388

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI044900

<400> 619

tttttttttt tttttttgag actgggtacc cgcattgttc tgaggaggat ctgttcttta 60
 gtgtactgga aacacgaggt taccagcagg cacaacaggg accctttgga acccttacia 120
 accagaaggg tcacataaat gtactgcatg tgagggtggt agggaaaggg acaaggggaa 180
 ggggttaaga agagaaatct ctggtccact gtgactttct tcagcctgga cagttgctct 240
 taaaggggta gctttcttcc agtgtactgt actcttcaga gcagcagacg gctgcagggt 300
 gtgcagccag cagcagacgt atcagaaaga gtaagtcccta accccttggt tagaaaaaca 360
 ggagacagaa gttttaacac ccacctta 388

<210> 620

<211> 460

Figure 1 displays a sequence of 12 grayscale images showing the progression of a handwritten digit '0' from left to right. Each image is labeled with a number from 1 to 12. The images show the digit being formed by a series of horizontal strokes, with the final image (12) showing a complete, clear '0'.

```
<210> 621
<211> 320
<212> DNA
<213> Rattus norvegicus
```

<400>	621					
ttttttttttt	ttttttttaat	agttattaat	agttttattg	atggacaaat	tagacttttca	60
aatccattca	tacaaacaca	cattgatggt	tctattctga	atcagttgca	attagcatgt	120
gaagggggtt	ttaatgcgta	gaaatatcgg	ttgggcttag	tagcacatac	caactctagc	180
agagtcaggc	agatctctgt	gagactaatt	ccagtcctgt	ctacacaaaag	atgtgtaaga	240
ctgaaaagac	tacatgggta	aaacgtctct	caaaaacagg	agcccaaaaa	gataggaaaa	300
atattcaqac	cctcqtqccq					320

```
<210> 622
<211> 396
<212> DNA
<213> Rattus norvegicus
```

<220>
<223> Genbank Accession No. AI045195

<400>	622					
ttttttttttt	ttttttttaa	gttgagatt	gagtggaaat	tcaaggcctt	ccgcagggaa	60
gccagctcct	catccttgat	ggagatcttc	aggtctgggc	tgatctcaat	ttcagctagc	120
aagagctcat	acagcagttc	cacctcctcc	agggaggtct	gcaggactgg	attcaatggc	180
agggacaagg	acctcttttg	ccgatgggca	gctgggaaca	gtgcagccct	gctccacctg	240
cacgcagtgg	cctgggcgct	ggagagcacc	agcagaatcg	tcagcacctt	ccagggcatc	300
ttccaggagt	gagacaaact	gaccttctat	tctctcagga	ccccaggagc	cacaggtggg	360
cccctgctct	tctctgcgaq	cctcgtgccq	aattct			396

```
<210> 623
<211> 353
<212> DNA
<213> Rattus norvegicus
```

<220>
<223> Genbank Accession No. AI045253

228

<221> unsure
<222> (1)..(353)
<223> n = a or c or g or t

<400> 623
 tttttttttt tttttctggg ttcagtcctc agctccagaa aaaaagaaaa aagaaaaaaa 60
 atttaaaaat aaacctaaaa aaacaaatct atcttcagtg agggagctgg caagagggct 120
 cagcagataa gagcacttgc tgttcttgca aaagacctaa gtccagctat tggctcctat 180
 atgggtggctt gcaacttcct gtaattccaa ctccatgtag ttcttactcc tatttctgac 240
 cattgtggga catcaggtat gcacggggta cacacacata tatgcagaca aaacatttaa 300
 ataaacatga aatanaataa tctaaaagac ctccagagag gattggcaat gta 353

<210> 624
<211> 457
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI045256

<220>
<221> unsure
<222> (1)..(457)
<223> n = a or c or g or t

<400> 624
 tttttttttt tttttttcct taggatggat ccatttaatg actgatttgc agatgaacac 60
 tcttagtaca cagttgacaa taaaccttga ctcatacaaa gcaccagatc ctttgtttgc 120
 ctgaacatca tagtaaggct ggggtttcag gaggcttgcgt gtctcggttt acttagatca 180
 gagtgcagat tgtgcagagc cttcttgctg atacattcat tactgtcgac ttactgtttc 240
 tatctgaaca agaacagcag cttttctcac cagaagtcac ccacattgct cagcttaaaa 300
 tgtcaccacac ttggaaagggt gagcccatgt cagcatagta ctgctttaaa ggagagtcac 360
 gtcagaagat aacagctagt tacagcaagg caaatgggct tacanaagct acgtggactt 420
 aatgtcagat atatcatggt tagacaactt tacatga 457

<210> 625
<211> 396
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI045440

<400> 625
 tttttttttt tttttttcca tttttaaaaa gatttatttc tatgcatata gatattttgc 60
 ctgtgtgtat gtatgtgtgc cacctgtgta cctgggtgcc ttgaggggtca gaacagggca 120
 ctggatctcc tggaactgga gttgcaaaaa tttgggagcg gccatcttag gtgctgggaa 180
 tagaacctgg gacctctgga agagcaaccg gtgctcgtaa ccaatgagct atttcccagc 240
 cccctcacca atatttttca taactgtaaa agtaagaca tttattgtgt aaaacaaaga 300
 caagttagggt gaaaaaaatc aactttaaat tccccttttag gaggaccgta ctaaacattc 360
 aggatgtagc tgctatcaca aatgcacctc gtgccg 396

<210> 626
<211> 439
<212> DNA
<213> Rattus norvegicus

<220>

0391280-073101

tttttttttt	tttttttcag	agcaacaaaa	ataaaagctt	ttatttggtc	atttgaatat	60
aaaacaggcg	ttatcacaga	tgtacaaagc	gtactgggtg	ttgaacatac	aagaagggtt	120
ctgtcctttg	cacataaaaa	ttttgtttga	aactgtgatt	ggttgagtac	acgagttttc	180
tctaaccagt	caccacactc	tgaataaacg	ctgctaacat	tcaactgata	aagggaccgt	240
ccccttggg	aaagtgtcaa	gcagggttaa	atatgtataa	tagacaagca	ccatgaggaa	300
tctgctcctg	ctcgatgggt	ctgtgtctca	atgtccttgt	gtaccctctt	tttgtgcaag	360
ttgattacat	ggttttggct	gactccaaaa	gcacatggtc	acaagacaaa	catttttttt	420
ttaaaaaaca	ttctcatqa					439

<213> Rattus norvegicus

<223> Genbank Accession No. AI045555

tttttttttt	tttttttgat	gaagacgttt	ggagttcttt	attgctatga	aaactattaa	60
aagggggagt	agtccttttc	agctcctcta	agaagcaagg	tgttggtctt	gcaatcctca	120
atcatctctt	cagttcctct	acgtacccaa	aagcatcccg	gagaagctgg	agcgttcttg	180
gatggtgagg	actgccccag	aactgttgct	cacgaacaca	gagacatact	gtccagactg	240
taaatacagc	agccctgaa	cctgcacggg	gaagaccctg	ctgttggtct	ccaggcctga	300
cacagcctcc	agggacgtat	gacggtgaca	caaggactca	atacagatga	ggacacggac	360
cgtgtcccg	gtacgtaacc	ggcctctgcc	ctgcagttca	ctgtggtcca	cgtgcaggct	420
ggcagaaaac	tggaaagatg	cagagactgg	cgc			453

<213> Rattus norvegicus

<223> Genbank Accession No. AI045624

cggccgcttg	ggggcgctct	ttcagtcctt	aggctccgtg	gagccgctct	gtgcaggggg	60
cagcccgga	agcgactcac	cggagcgcca	tggtcacct	cacaacctt	ttctgcaaag	120
cctaccacgg	cggccacct	accatacgcc	ttgctttggg	tggctgcacc	aaccggcctt	180
tttaccgcat	tgtggctgct	cacaacaagt	gtcccagga	tggccgattt	gtggagcagt	240
tgggctccta	tgatccact	cctaacagtc	atggagaaaa	gctagtgtgt	ctcaacctgg	300
accg gatccg	gcactggatt	ggctgtgggg	ctcagctctc	taagcccatg	gagaaacttt	360
taggtctgtc	tggctttttc	ccgctgcatc	cgatgatgat	caccaatgct	gagagactac	420
ga						422

<213> Rattus norvegicus

<223> Genbank Accession No. AI045802

tttttttttt tttttttaac agcctaataaa gaggaatatgt ttattttggc tcagtttcag 60

```
ccaagtcagc tccaggggtgc ttggcccttt gctttggggc tgggaaagaa gcactatgtc 120
atggcggagg agagctgtc atttcacagc aactggcagt ggagaggcaa ggaaggacct 180
ggggctctga tacaccccag taacataact tctcccgaca aagaccact tcagttccta 240
ccttctttaa gctaagggcc aagccttcaa catagatttg ggttacattt aagatccaaa 300
taggaccagc caccacgaag aaggatttta taggagcaat tatatggaga atgttaagag 360
ctaactacac cctttctaca ctagagagggc aggtaatgcc gcagaaaagg gggtaggggtg 420
ataaagtccc acgcacagggc agcaagctca gaggattcaa aagcacttta ggggacttg 480
ccctcaaagc ctgctgtctc ctctcatcca gtgtccacac agagctgacc gcatttccgg 540
gtagcctggc t                                     551
```

<210> 630
 <211> 387
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI045881

```
<400> 630
tttttttttt tttttttaa tagttccaca ttttatggga tattttccat tttttcaacc 60
tgaatatcat gattttacag ttctagcaaa tggatccatg gccttggaac aaacctgggtc 120
tgtaaaggca gcattttaaa tacctttatc ccacctgaa aagtaatctg tcacacctag 180
gtcgggact gaatttaaac ttccccacat tgctaggcta tggctggaga acactgaggg 240
gtccagttaa cctgaagggtg gttggaaagg accgtatcac agcccctgca aacaaaatgt 300
gtaaaaaacc ctgttgtgtc caatccactg gctccctaga tttaaaatat cctgatattg 360
caccaaaaag ggtaactaaa aactgtc                                     387
```

<210> 631
 <211> 378
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI045972

```
<400> 631
tttttttttt tttttttatc ggcaacatga attctgtatt gacatttggt tcttaataat 60
aacatccaaa atgcattctg ttcttatagc gctgtgaccg cgactgcac gggtaggagg 120
tttatgttgc cggagtcttc cttggaagtg ggaggagctg gtgattgaga tacactagtt 180
tctccttggt acctatatgc agcttggtgg ggtgctgcag caggcacctc ggctctggta 240
aggggttgagg atacaacccc agcaggtctg caaacacatg ggagagacc tctgccccaa 300
gcccacaaga acacggacgc tgatggggcc aatgggtggt gtcctggag agtgaaaggg 360
acgctgagat gttacatt                                     378
```

<210> 632
 <211> 319
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI058319

<220>
 <221> unsure
 <222> (1)..(319)
 <223> n = a or c or g or t

<400> 632

gcacccgctt tcccccttctt ccccttgggt accttctctc ccttctttgc aggggccttt 240
 ttaggcttgg gctctggctt tggaggagca ggtttagcag acaaccttgc agatcttctc 300
 tgtggctcgt ccttcacctt ggctttgtct ccttttagcat ccccttcagc atttcttttg 360
 ggcacggcgg cggcagggga cgtcggcgct gagcacgggt ttacagcggc gcacggggtt 420
 ggtccgctccg ggggtcgtcc tcgctgcttc ttctcgtgc cgaattc 467

<210> 636

<211> 496

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058436

<400> 636

tttttttttt ttttttttagc ttttggttgg ccttttagtct gaaaaagtgt tgcttgaaag 60
 tgtacaacag agagcgggtg caagcggcta ggggtcacag agccgccaat aaaaaagaat 120
 gtccttaaat aaagtgttca cagagtaaaa atcagaacta ccagtccttc cctccaacac 180
 aacagagcac aggcacagaa ccgatagtcg atgagcccaa ggagtaagga ggaggctgga 240
 gaggacagca gaggtctcca ggctgcccgg tccagagggga gagccctctt tggaatgggc 300
 tgaggaaagc cgccagccc cctacacacc tcataccac tgctaaggct aaaagaaaag 360
 gacaaaactc agtctcgggt ccaagggctc agaacagtc aggtgggcag ggtccggttg 420
 actgctagtc ccgcttgggc ttcttcttgt cactgttgcc attctcttca gccccctccg 480
 tggagagtgc ctctc 496

<210> 637

<211> 490

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058581

<220>

<221> unsure

<222> (1) .. (490)

<223> n = a or c or g or t

<400> 637

cggccgcccgg acacagccgg ctgcagtgtg gaccatggac tggagctatt gaagacccaa 60
 aagaaagaaa atgttgagag gtggaatgag cttggtgggt gaagagatgg ctgaagattc 120
 acacttgagc tgtttcccaa aactaagtgc tgcaggagag cagaagcagc tacctagcct 180
 gccagagaca tgctgtttct aggttanggt gactgctgac acaaggaagc aaaaaaatt 240
 aaaaatactg gagcgtgtga taatgatgag ttcagataac gcatgggttg agttttcggg 300
 cctggggaca tgctggagat gtactgttgg tacgtagaca tgacagaaca tgatgaatgt 360
 tctcagaatg gaagaacatg gcaaagaaaa gttggagggt tgaaaagaag gaaagactta 420
 actctaagga gagactcagg ctttggacta ctgctctttt ggaagattta aaataaactt 480
 tgaatgttaa 490

<210> 638

<211> 376

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058603

<400> 638

tttttttttt tttttttgct ttgttcaact ttatttttct ttcaagacag attggactag 60
 taagtcgagt gatagttggt gaaaattcta gaaagcaaca agaggatcag gaaggagatg 120
 gagcatcgag acatggacgg tgaagaatag gatcatgggt attcgttagc tttcttcttt 180
 ctctgttgac aaggcagctc cagttacatg ttattagggg gcctgacttt gtagcagaat 240
 gggaaagaag ggacttaaga gtgagtcacg gggttaagcat gtgctatgga aggattgttt 300
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<210> 639

<211> 346

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058746

<400> 639

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 gtgaccgaaa attaagttag gggagatgaa aacttcctgg gaagagaaga ggaagggtaa 180
 agtgctgtgt taggagccaa gcgacaggag accctgaggc cagtgatgtc atcccagaaa 240
 caacatggtg acagaagttt aaaatcttta agccacgact ttgaaggact agtgcagcag 300
 agcgagcacc tatgctgagc atgacagcct ttgctacccc agcaca 346

<210> 640

<211> 371

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI058956

<400> 640

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 taaaacataa cagtcccat tcttttctt aaggcagaaa tgcccagacc ccatgccaac 180
 tgaactgggg atggaggaaa tgctacatct cactgggtct ccccatgtca cttgctgtgg 240
 acccagagaa ggggtagaga cagacagctg tagagagagg ggagtgcaa gctggggggc 300
 acgtatctca tagcaccttg gccaaagctg ggcacttatg gaagagacca gctttgttct 360
 gctgttcccg t 371

<210> 641

<211> 324

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI059270

<400> 641

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 ttggaagggc taagtttagt cctaagcggg tatcaaatat gaatctgcca tccactgcag 180
 cacgctggat gctaacacgc tgaatacagt taacatttaa acagacttac ttcttctgt 240
 aatttaaatt cagaaggatc tgctgcaaca gccatgaagt aaagcagtct tctaaattct 300
 tccctatttt gggaatccag aagc 324

<210> 642

<211> 243
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI059386

<220>
<221> unsure
<222> (1)..(243)
<223> n = a or c or g or t

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gggatagaat ctgaggcctc agacatgaca ggcagggtcct ccactactaa actatgcccc 180
agacccgagg ggttctangc aagtgtctct ctattgaaac atggccacag ctctctcagt 240
gta 243

<210> 643
<211> 405
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI059389

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aaagcagaat ttttaaaaat gtacccagtg ttgatttcac ccatctaaaa ttgttgtaga 180
attcagaggg ccaagctgaa aacgtacata gaaaaataaa ggtatagaaa ataatttcag 240
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<210> 644
<211> 493
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI059444

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ctgccccaat cccagggtat aggagtgtct ctcttgccag cctgtttcct gattactcaa 240
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aaccctaaaa actatcacta caaaaacaaa acaaaaacaaa aaaaaaccta 360
atatattaaa agctacttct ttctgtgaaa gagaaaattt gaaattaaat ttgttgtcac 420
aagatgaatc tttgtcttaa gctgttttct cacagaaagt gtatgttttag aaaacgttat 480
tattccaagt gat 493

<210> 645
<211> 299
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI059543

<400> 645

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cccaaaggct gacgtgata ctctatggct atgtggaagc cacgcaggctg gtgacatggg 180
caatgctcca actaggagcc catacagcag aatcagcatc cagggcaggc ttatagggac 240
tggcgcgtgt ggaggacgcc tctgtagacg ctccaatgca ctcccatgca ttggggcca 299

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<210> 646

<211> 374

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI059604

<400> 646

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tttacttaga aaagagttaa cagtaaattc agtctaaaca agaacctact atcagttata 180
atgtgagttc ctctctttct ttgtgcaata aggaggctta tgggaaatgc tggccccaca 240
gggagagcca gcgatgactc agcacctcca tgattaagga agcctggagc acagacgccc 300
tgatggggag gaggggtgga ctccagtctg cagctcctcc acatgggctg cagggcctat 360
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<210> 647

<211> 250

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI060071

<400> 647

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atgcggacca cacaaacagc gccactgtac acattaccac aggagcacg aatgaggacc 180
acatatgcct agcatggcac aaaaggaggc caagtcagtc acagacacaa acattggcaa 240
aggtggggga 250

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<210> 648

<211> 390

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI069920

<400> 648

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ttacagtctg agcccaggca gcagggggcag actgggcctg gaatgggctt atagaacctc 180
aaagaccacc cacagggtcg cacatcctcc cagaggccat gcctcccaat ccttctaata 240
ctatcaaacy gttccaatcc ctggtgacct aacctccaaa tatgagacca tgatcccata 300

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TTTCTGTTGGG

ttcattcaaa ccaccacact ggtggaggca ggacacaatt ttaatgggct atagagtaca 360
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<210> 649

<211> 504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI070068

<220>

<221> unsure

<222> (1)..(504)

<223> n = a or c or g or t

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ctgcgaagtc ccgggctcga gtccccggctc ccgcgctcgag ggtcgccgcc ctccgctgag 180
ttacgcacag ttactgtgcc agcgggggtgg gggacgcctc gccccacccc tgcggcggtg 240
tccagaccgt ctgctgctgc gtgcagaggc tggctgcatg attgccaggc cttggctcta 300
aagtctctgt ctctccagc ctgagggtccc ctcttcctg tcttggcgac cacctgtggt 360
gctggctcct ggctccatag cccaaggggc gggcgggcgc acactcccct ctctcgtct 420
cagtctcggt gactccgccc ctcccggaag gtatcacggg tagggtagct tttgagggat 480
tgttctgggg aatgangggg cgt 504

<210> 650

<211> 306

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI070152

<400> 650

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ttaacaagtc gaaatcccga gctgaggatc agagttcgcc taaggcccga cgagaagcga 180
cctccgctaa agaagaagtc cttgaggctg gtccaggagc agctctcctg cttgaacacc 240
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gtgccg 306

<210> 651

<211> 344

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI070233

<400> 651

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tagacaagtg aacaacaagg ctgagattat gccaccatt ctagccaggg cagagacaat 180
aacaatctgt ccaaactgaa gcaagaagga aggtgggttag acttcagaaa tgactttccc 240
aaacacatgg catgattggt aagggaaaca caaggggcca actccataaa gaatcttggg 300
gaccttggga ggaggagggt ctggtgttca aagcagcagc tttc 344

<210> 652
 <211> 408
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070319

<400> 652
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 acggccctcc ccatatgttg ctgaactgga gggctgggtt accatggcaa ctgtgagacc 180
 tggaggacag ctacagacag gcctagctgg ggccactgct gctcctgggt ttcggttggtg 240
 gtagtggcgg tgggtgggtgg taaggctcca tctggacctc catctccacc tcctccaatc 300
 cactttcatt ggccttctag aactgagatg tacaccgctc ggctccaaaa agggctctctc 360
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<210> 653
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070350

<220>
 <221> unsure
 <222> (1)..(471)
 <223> n = a or c or g or t

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 acttgcccg ctagtagaaa gggaaccaga acaggagtag atcgctgaag aactcgacta 240
 gaccgaacag ggcgtacacc acccagtagg ttagccacac agtgcgtct tccttggttg 300
 ggctctcgat agctttgact gaagcatatg cgggggtatac aaatccgatg acattgcaaa 360
 gtagagacgc cccgtagccg aacagaagat acaggcctag aagggtgagg gctcncgcgg 420
 cgagataccg cttctctaca ccggtcctgg cttcgagcgc cccagcgcg t 471

<210> 654
 <211> 332
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070421

<400> 654
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 cagaagttagg tctatcgggg ttctttctca acagacatga tttctagaaa cacagcagcc 180
 atcttgtagac tacgaagcaa ggagcaatga gattactgag aggaggcccc gccctcactg 240
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<210> 655

<211> 554
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI070511

<220>
<221> unsure
<222> (1) .. (554)
<223> n = a or c or g or t

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 accttcctga gtcgccctc tgtctgttgt aacttcactt cgtcggcctc ctggacctca 180
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 taggccgaca ctgccgaggc caaggcaccg gtacgctcat cagctacttc caagaaacag 480
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 ctcagcgcta gtc 554

<210> 656
<211> 286
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI070611

<400> 656
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 gacaatatca tgctgttcat tgatacaata cagccctgtc ctgggtatac aagtctgtga 180
 catcattcac tacatgaatt tacttcatga gacggcatag cagaataaga ctaactaaag 240
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<210> 657
<211> 428
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI070879

<400> 657
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 tatacaaagt tcaaaaacta gtccacaggc actcgcccaa tctacagggt gccgttttaa 180
 tctcaaggct gaaaactgct tttcccaaca aacagcgctt tgccatggat atgtattagg 240
 ggtagtcaga aagtttaaga atagaacttc agaaagaaac ctagaagggt atcttcatga 300
 gaggcaacag tacacttttc acaaggaact aaccttaaag gaaaatgtta ataagtggga 360
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 aagggatg 428

<210> 658

<211> 381
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070895

<400> 658
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 aattcgtatt ccagatgtgg gcacagggtg gcttcatccc agtttccagc agtatctgct 180
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<210> 659
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI070903

<400> 659
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 atcatatttg tgaagaggaa gaggagaaca ataccaggg aaagccaagg acatggtggg 180
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<210> 660
 <211> 509
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071162

<220>
 <221> unsure
 <222> (1) .. (509)
 <223> n = a or c or g or t

<400> 660
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 gctgcattag tgggtctttc ctggtataga cttactatg atttctgata gcagctcctt 240
 atcaaatgga agctacaaac tcaattttta aactttgtta aaagaatgac taaaattctg 300
 caaactaagt agttgagttt acagaaattc tgagaaaaca actgagataa aatactaagg 360
 ttaataatta tcacatatac aaaactctct tatattcatg attcttatac taatatactc 420
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<210> 661

<211> 504
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071166

<400> 661
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 aatgcataat aaagactgtg cttctaagcc tttccagtct gggtaagggtg aggggacgcg 180
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<210> 662
 <211> 472
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071177

<400> 662
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 aggaactgaa agtaccagc acaacaatct tatgcacttt gaagcatgtt agagaggacg 180
 atggcaccat tggataatga actactgagg aaaggagagc cctggccaag ttacctttgg 240
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 agtgtccttc tctctagctt cctgatgaga tggcatctaa agggctctaa ggttcactcg 360
 gctcccacaa agagaaggga acacttagct gctgcccctc tctataggca cgaccgtgca 420
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<210> 663
 <211> 519
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071181

<400> 663
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 ttcccatctc tctgtggtgt gatggagggtg tgagtccctg atgtaagtgc gaagagtcca 240
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 acttgactat ttgctctatg tcgcgcctcg tgccgaatt 519

<210> 664
 <211> 555
 <212> DNA

<400> 666
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 acctctgcaa cacaaaactt atacaataag aacaaagagc acaggaacga tatggtaaat 180
 cagcctggaa ttcttattct taggttaaag gatacaatgc agtaacctga gtgtagagct 240
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 ctgttctgga agcgctgctt tgcagtactc agtttgactc agaatatctc cagcaaacia 360
 cacatccact gcacacaact acttagcagc agcagaataa actcgcttaa gtgaagtctc 420
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 gaccctcgtg ccgaat 496

<210> 667
 <211> 547
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071251

<220>
 <221> unsure
 <222> (1) .. (547)
 <223> n = a or c or g or t

<400> 667
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 atgccaagaa acgaccctgg tttctctgtg agaaacaagg tgagaccata attggaaaag 180
 gaaaaccca caaatgagaa aaaccaacia agaaaacaag atcaccaata cacaactaac 240
 tacagtcttg taactacacc gctagccgag cataacacga gtctcaaagg aggggagtg 300
 ggagggacac acttgaaggc agggggcccc tgtccccctca aactgaatga gaaaaacaaa 360
 gtcaacaaca agtcaacatt gcttaaacca gtggccacac agtaaaaact gtacattgtt 420
 gtccattcat ttaaaagcaa agtcactagg atgattaana aaaaaaaagt gagaactgg 480
 gcctttgaac tttctgatga tgaacacttt tactcagagt ttgacaatta tctccactct 540
 ccttgca 547

<210> 668
 <211> 501
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI071456

<400> 668
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 ccctccccag ctccctctcc atagccatgc ccaaagggcc cttggagggt tccctcaa 180
 gctccgccct tcaccatctg aacaggccgc tgggtctctt cctggcgtag cagcaccatg 240
 agctgggcaa tgtcatgggc cagcatgtca tcaaccactt ctagcagctt gctcttcagt 300
 ggttggaatt tgctgaagtc ctgggcctgc agctgactct gcacccctgt ggttcttgag 360
 ggccttgatg acttctgaga actcatcaga gatgtcaagc ttgtgggcgt caaagagcag 420
 gatgattcgg tccaccgct cagcaaacca ttcgaggaca gcagcaaaat cataccctcg 480
 gctgactctc tgtttctcac c 501

<210> 669
 <211> 510

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071538

<220>
<221> unsure
<222> (1)..(510)
<223> n = a or c or g or t

<400> 669
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tttgaaaaaa ataaaaggat gattcagtta tgtactaata tgggtcaatct gcttggtgaga 180
aagattctct cgggagaaca cagtgtctgtc tgcccttcaa gtgtggcact ggtacaagtg 240
gcgacagcac gctgggactt ctctgacgtt gctacgcatt ctccctgtcc cagttgtcct 300
ggctgtttcc tgagctgggg caggagcatt ctgcaagaca gccccagaa gggaggagta 360
ccttcgatgt tggggctttt ttacttttaa cgggacacag aatgggttgt ggggcannga 420
atcaaataag aaactgtttt cttggcaaac atagttcatt aacacattta acattaaaac 480
tgcaccaagc gctggggagc tagctccaca 510

<210> 670
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071578

<400> 670
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agcgtacaac tgcaactcta cgtaaatgcc acaaatgcac aataccgttt ccttgctcta 180
tttacatagc tgatatatct accctaacag aggtgggggt agggaggatg cacaagaaac 240
tcaggccaga ggggaagcaa gagagaatga gagggacagt gcatgcgtca ttggtgtcta 300
acagtcagaa gcgcaaacag ttcagaacaa ggccctgccct gtcaaaggaa gagctaaaga 360
cgttatataa aaattaaggt gggctttcag tccggctaac acaacaacat tccgtgaaga 420
gacggcattg tcagatttta tttttgttta tccatttcatt tgggagcaag gacaaaaatg 480
taaaatctat accttgct 498

<210> 671
<211> 330
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI071642

<400> 671
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gtgccaggat tgaaggctta tgccaccctc aatcaatccg caccgtttta taactggagg 180
ttccctacaa tcaatcctca gtctttaacc tcaaccctgt aacgttcaat cataatcccc 240
aaggatcctc gggccacact gtctagaatc tgtagatgc ctttgggtcc ttttaacaagc 300
cgggtccagg gttctactcg aggctgtgca 330

<210> 672

<211> 336
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071858

<400> 672

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atttttcatt attgaaaata aacagctttt ctactggcat ttgcttagcc acaacagtcc 180
tggtaaagaa aacagagtgc cctcctcaag caaataaaac attacataag caaaatcact 240
tttcagctgg attatttctg ggtaaagaaa gccacaaaga gcaaatttat gggtaggatt 300
aggtgaaaaat ttttcaaag gttccacatt aactta 336

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<210> 673

<211> 334

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071867

<400> 673

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ctccaagat gtactttagt gttggaatgt tccagaggcc ctgccactta tatgtcttca 180
aggacagcca ctgaggggtc ttcattgccac agtagatgcc cagcccggtg cagaggagta 240
cgtccatgat ccaatggtcc caccagcact cgctgaagtt gggtagctgg tgctccaggc 300
tgtactccag gaactcgaac atcacactga tgat 334

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<210> 674

<211> 271

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071868

<400> 674

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taggatagac caaggcacia tttttaggaa gtccttctgc aagccacaga aggtatggga 120
atagatgggt atctggctag aggtaacaac caaggaaaga gaaaacaaag aaagtcatac 180
aaaggaggca gagatgggat tttgtctgag ctatagtagt ttgggtgcaa tgtgaggagt 240
ctgttttcatt gaggaatcac tgaggaatct a 271

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<210> 675

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071965

<400> 675

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tgacctgagt tcaggatggg tatgtaaaaa caaaaaacgt gaactaacag tgggtgggtgta 120
aactcatctc cgagttcaca cactggggac caagtgcac gccaggcaa gattatacag 180

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ggaaggagaa caagagtctc agccttcggt gagccaccat gcaaggaaaag caacagagtg 240
tcaaacggga gaagcaacag agtctcagct ttcagtgatc caccggtggc ccctgagctc 300
ctgacttaac agtgccctcaa cactgtcgcc caggggagag tccaaacaca aaggaaactca 360
acagtgtcct ggtgtttttg taacacacct cttgctatat caatatagct ctgactgtcc 420
tgcaaaaagaa ataacttcag agggggggca 450

<210> 676

<211> 384

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071967

<400> 676

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agtcaaggct cagtcatgct gtagtcatac cagaagttaa agttggtagg aggtgggggt 180
actgggggag gatgctcagg aatggggcaca ttctccagtt ccaacaaccg caacttggtc 240
tccatagtga gcagctgctc caggtctagc cgagtctgtt cactcccat agtactgcc 300
agcagggcac tcagtcacatc tgtccacagg tagaaatccc gtttgaggag ggcaatgaag 360
ttgaggtatg cttccctcgt gccg 384

<210> 677

<211> 335

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI071990

<400> 677

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aagtccactg tgctgttata agcctggaaa agagttatca cagataacag taagattatc 180
cctgtcctcg gtgaagtaac ttagaaaccg tcactcagaa caaggcttct gaatcaacga 240
tgatgaagac ataaaataga aacactcaat ttgctcacac aaatgctcac aggttctgat 300
ttgtctgttt tagatttctg agacaagcct cacta 335

<210> 678

<211> 362

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072014

<220>

<221> unsure

<222> (1) .. (362)

<223> n = a or c or g or t

<400> 678

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cagccatgga ggctgacgcc tgtgccattg ctgagctgta agctcgtgta aggatcaagg 180
aggtgacttt aagttacaat cacacttgct ctgctagatc caagaccctg aatttatcca 240
aattgtagaa acaggcttta accacccgtc caccaaaata cctcccatc agatcgacaa 300

cagctttaat tgccgattcg actctctcan attctagaaa tatccgtact gtttcatcat 360
ca 362

<210> 679

<211> 367

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072054

<400> 679

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tatcagtgc aactcccaag tgtccacctg gaatagtgc tccttgctga gtgggtggat 180
ccctccatgt ttccaagtgc cagagccctg tctagcacct gtctgctggg acattcggta 240
gtagcgtcac tcgtcagtgc tcagtgcctt gcagcattgg cagagtgaac cccctggggc 300
caacctatat gaagacctgt tgtagcaggc tgataacctgt tcactctagt ctgggtgcaag 360
agtttga 367

<210> 680

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072092

<400> 680

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tcagatccca tgggactgga gttacagatg ctgggaatag aacttggtatc ttccagagga 180
gcaaccagtg ctcttaatat tcccagctac cactgccaca gccccggat agattttaga 240
acagcactga gtttagcagc attaaatata gatttgtact cccagctctt ggaaatctca 300
tagccctgca ctccagaagcc agtatatgga tgggtgacct gatcttctcc acctccgttg 360
tcagctcctg gacttcatgc agtagtcgtt ggtacttctg ctgtgggtgc tcctttactc 420
ccagaacctc tccaagcatt tcatagtctc cagactcata tcctgtcttc ttgggtctttc 480
caatgcgatc tgagaaatca agcccccttg tc 512

<210> 681

<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072107

<400> 681

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tagagtgcata tataatcatc cctttttgag aggacccatc ctctatactc ttttcatgca 180
gtgacttctg gcataaagca caacacagac ctccatgtta atattcatcc aaaaatggaa 240
aatcagggtg gccctggaat ctagaaccac tcatgtaacg gatattttta tttaggccat 300
caaggacttt catgtcttct gaagtcaact gaaattcaaa aacctgcata ttctctttta 360
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<210> 682

<211> 380

0991800-07310
T07E20-00827560

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072137

<400> 682
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ttgaaagggtg tagagcagac tctgagacag aacacttgga gtctctgtca gagaagaggc 180
atgaattact gaaagcagct tcaactgcagg aactgtatca tctgctgtgc ttgaatatgg 240
tgccatgtgg aacaaacgcc gtgttgatca gatgggctgc agcgattcac tcttgagcat 300
gacagacttg gaggaacgg cagtgcacac ggtggttctc ttaaagggtgc acgtgacact 360
gcctagttgc actccctcca 380

<210> 683
<211> 497
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072246

<400> 683
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gagggtggaca gggcgcccag gcctgcctgc gccattccac acctccactt ctgtggtgca 180
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gcaaggggtg ctgacaggta gataagtaaa gcagcagcag tctggaaaca gacaccgagt 360
atctttttcc tgaccaggac gaaagtcagt aagagacaaa aggacttcag tgcccatga 420
atcctctggg gttcgatgac agcacagcac aggtgagac aggggttgag tcattcctga 480
cacctcataa cctctcg 497

<210> 684
<211> 346
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072278

<400> 684
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aatcattttc acagatgcca gttgtcacac accagcttca ggctcaccac atacctggga 180
agcctttgct tttattctcc ttgccataga gatttgacat gacagtgggc agaaagctgc 240
agcttacagc ccgagggata atcttcattc cactatcagc acagtgagcc aggcagcttg 300
gtgatcccaa aacttattta tacgcagaac acggacattt tgcgta 346

<210> 685
<211> 431
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI072384

<220>
 <221> unsure
 <222> (1)..(431)
 <223> n = a or c or g or t

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 ctgatactac agctgtctat agagcccca cctgacctg ctgatatcat ggctgagtct 180
 tctccccaag caagataggt aaggaattct ggaagttgga ccattcactg aggagcgcgc 240
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 ctgcagaagg ctggagattc gatggcgtgt cttctcttta aatacatcat ccgtcatgtc 360
 cttcaggttg atgagcacat tgaagtacgc accanacaca cctgtctcca aagctttggc 420
 tgccacctgc a 431

<210> 686
 <211> 432
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI072393

<400> 686
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 tatataatta acagccaagc gatactaatt ttatatttgc agtgtcttag ttatagggtta 180
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 tgaaattatg atataaaaag ttcaaatttc caattttaac agcgacgtaa catttcccaa 300
 ggccggaagt gcccctgctg tcagtctctg tgagtgtgtt tttattccac gctcaaccca 360
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 gtgtgcgcct tg 432

<210> 687
 <211> 274
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI072476

<400> 687
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 tagtaacctt attttgttaa tagggaatcc aaggtttgac aaggtttaatt cgctgaccaa 180
 aagccatagt caggtggctc aaggactcca gatcccaagc tcagtttact ggccatgaca 240
 ttttcttgca ctttatgtgt gaggtatata accc 274

<210> 688
 <211> 283
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI072578

<400> 688
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gctggccaac aggcgcgggg cggaggcggg aaccgggctc ggacccggcg cgcaaggcgg 120
 cggcggcggc ggcggcgacg accgcggagc agcagtctcg gcgcgacgtg gaaggatgga 180
 ggcggcgggtg cactaggcct cgtctggggc tgcagcccgg actcaaattg gttccagaaa 240
 cccctgtgcc aggatcagat ttgcaagtat gtcctctcgtg ccg 283

<210> 689

<211> 352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072633

<400> 689

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 ccagcctcct agcagcagtc cagtagagca ggggttggag gcacccttgc cctcccactg 180
 agaattcctg cagcaatcct tcaatggcaa caactgtccc tgctcaagtc tcccatcttt 240
 atcctcagct gcctttttccc ttcaaagagc aggatgctcg cagccatggc tgaattcaga 300
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<210> 690

<211> 333

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072634

<400> 690

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 catccacgac cttacgggta gttgtcctct ggacagtttg catggagttg ctggagtcca 180
 gggcgtcgtt gagactgaaa tccgtcccat cctccaacaa gcggcggtag gtggcaatct 240
 ccgcctcaag cttgaccttg atgttcaaca gggcttcgta ttcttgggtc tggcgctgtc 300
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<210> 691

<211> 359

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072643

<400> 691

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 tcagtgcgtc agaaaaaaga ctgcttcttg cctcctttct gattacccca aggcagtctg 180
 gtcaccgtgg aggcttattt aaaactggaa aaagaggtcc tttgtgacat cctgctgcc 240
 ttcaagatgt cttcttgaat aagccctaaa gtcactcact ttctctgtgt gttccctgtt 300
 ccactctcac tcaactacagt ctagtcttta catggcaggt agcaagaata accttaaat 359

<210> 692

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072712

<400> 692

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acaatgacag tgtacatggc tagggtaagt agcgtcacca aagattagtt ctctcgctta 180
cactaagtag gcacgcacat cccaccccag caccgacttc acagtcagct gtaaagagtg 240
gcatttcact ggatgcctcg agagacagtt ctgttgaggt atttgagttt aaagactttg 300
aaaggaaaga gaatttggct gaaaagtatc cttttcttta gttaaatacg aacaagtctc 360
cagtcagcac ccagtcaaac acagtgcctt gaactttggg taatttgtcg gacagtatac 420
tccacgccac tgtg                                     434

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<210> 693

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072812

<400> 693

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taattctata gtagagaagt acaaagtctg cacaagtaag actttataac agaattttca 180
atcctgcccg aaggaaaata aactatacat atagttcaat ttaaaaaaca aaaacaaaac 240
tttaaaagtt gtgcttaaca tagtggactg ctacacagca tcaagtctta gagcactgat 300
gtgctccagg gacgacggcc tgacagagtg aggacctgga gtgctctctg agagctcctc 360
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ctcatatgtc ttttgtctga tcgtcttctt caagctttct gatttcattt tttaaacaat 480
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<210> 694

<211> 251

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072866

<400> 694

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tagtagcatg tctaaaaccc aaactctaaa acgttttaaa acatttatat tagtttggtc 180
ttattcctaa aaaaaaaaaa agttcacatt tcaagttata aacttacctc agtagtgtac 240
gtgtgaaatg g                                     251

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<210> 695

<211> 388

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI072914

<220>

<221> unsure

<222> (1) .. (388)

<223> n = a or c or g or t

<400> 695

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tacctttgtg tctggctggt ctgctgcata aactcttcaa caactatgtc ctccgatctt 180
gcaggaccag caaaggggaa aggagagtta tcaaaccctt ctctgggctt cctccacatt 240
cttgattcta tagaggtaat cacttccttg cttctcagcc tccccctct tgcctccatgg 300
ggagggcttg tttcccttct gaatctgtct atacaatggg gtcaaggtgc attanaaggg 360
aaacagtgtg gcatggggta cagggaata 388
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<210> 696

<211> 506

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI072959

<400> 696

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caacaaatta tcctttttcc cccaaagtaa attgcactag ggtactaggg tttcttccaa 180
tttgtgattt tttttttttt tgagccagtc agcactgccc ttcctcttcc tgactccctt 240
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ctatcctgtg agacacccac gtattttatt catggaggac agagttgggc acttccggaa 360
gctccttggt gagaacatgg taggcacctt catacatctt gagtgttttg tctgactcgc 420
gggatgattc catgagcagg tatgcacctt tgctgtcgca tagccggtca gcagaaccct 480
gcagcagcag gaacggcagt gtcagc 506
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<210> 697

<211> 242

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI073047

<400> 697

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catcatatac acatggtaca ggagcagcta gagagctgct tttacacaca gcttggttga 120
cagctagcac tgaatcgag ggctgcgaca caatgctata ctggtgtggt gtcagtagca 180
agtaattact acaaagagaa tttcttggca ctgatggttt aatggagctt aagtcagacc 240
ta 242
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<210> 698

<211> 343

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI073059

<400> 698

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tcagagcctc ccagcagggc tatgaccagg accacgcca aggaggctgg aagaactgat 120
aatgatgagt agcaaagggc aggcaggcct gtgcctgtc acatccaagt ggaaacaatg 180
tctctgaggt ggggctgtcc aggtccagcc tgttcaggct tcacagccac acccacatga 240
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gggctcttga gtgaggccgg cgtagaaaag gcatgggaac agaacctgta gaaaatccca 300
actaccataa ccagcattca ttcctacttg aagttaatct ctt 343

<210> 699

<211> 595

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI073092

<400> 699

tttttttttt tttttttaac atttttaaaga atagtgtttt attgaataag ttttattcac 60
agaaaaataa gctttaatct ataacaaatg acagattata gagcagaaag caattctctc 120
tataattttc ataatgaaag ttttcaggat gaaaagtgtt cataatgaaa gaaaagggtat 180
ccattaaaag aaaaaaaagg agtcataaaa ttatattcac aaatatagta caatatgaca 240
aagcaattgg tcagtctttt gggtaaaagga taacaaaaat gcaaaaacag aaattacatt 300
atgccgttat tacatcaaat taaaaatgca ggtttggttg taagtataga cagtgaccaa 360
acagtaatct taaatgtcca ttaataatac ataagcacat agtaaatgcc aaacatctgc 420
actcacatct gcaaaattca gtctccaaaa gagaacttta acactcaagc attattgtca 480
tactgtttta tttgaaagta tgaacaatgg tcctactaca gaaattataa agcaccactt 540
aatgtgcagt gaaaatagag tgtaatagaa tgaacagttg aaaaacacct gagac 595

<210> 700

<211> 437

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI073257

<400> 700

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gaacaacaac tacagaaaag atactgtata gaacacagtg gacattaaac tgacagtagt 180
attagatctt actgggtcctg gttcattcaa tttttaccac atcttgattt gtactggaaa 240
cagttcagtg catgtatctc ctcagaaaac atttaactta gactcaaaaat acaatagggc 300
agtgcataac tgcgaaaacc ctaccacagg ataacattac aagcaaaaaa tgtacatggt 360
ccaaagtcta gcaaaactca gaagttacta agaactcttg cacaataaaa gtcaccattt 420
tagaaatgca aaccac 437

<210> 701

<211> 477

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI100769

<400> 701

tttttttttga gtgttttatta aatcgcttta ctgatacagt gatattacat gtgaacagcc 60
atggctaaac catctcatgt agtacatgtc taaagtcatt tttcacaggc acattctgtt 120
taattcttta aattccaagg gcatagctctg tgcttttcat catcctgaaa attatacca 180
cgactgtgaa agccacatta atgtttgttc agttctgtct gtataagtaa cataaaaatg 240
tcaagtgtgt tgacccttca aaaagttaaa ttttgcttac tgtagagaaa tgcctattt 300
ctccctagaa aaaggataat attttctgat tgcgcaagca gtttatgagt gtgctatttg 360
agtctatttt gacagctgcc tttcatttgt tattggagag cctcttcag cacgttcctt 420
ctccccctat tctagccaag gtgggggggtg tcaatgtttt ccataattat tcaaatt 477

<210> 702
 <211> 476
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI100835

<400> 702
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 acaaacagcg acactcactg gacagtcagt taccctcaca catgggaagg acaaattgat 180
 gtactgtgga gccagtggt gcaagatgcc agagtaggga cagacgtgtg gaagagcggg 240
 tcatggagtt agcgccagaa taactcagag accaggtgat ctgttcaaga tagaaatgga 300
 ggtgccttcc ttccactgtg acccatttct ggcttggact catgtggggc ggagaccatg 360
 ttaaagggtgc taaagagaca agacactgct cccatttgtt ggctatcaag gtccagttga 420
 ggacttaggt gcgtgcactc taagtcagaa gctatccggc ttctcagctg tcgggt 476

<210> 703
 <211> 362
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI100871

<400> 703
 aacccaaaag gaattaaaca atttacttta aatcaaagtt caggacaaca aaaggggcat 60
 gctgggtccc atgcctgcca agtgaactca acaaggggta atcgcatcca cagctcacag 120
 ttcacaaaag ggaaagaggg gtggaggtga gggcagggac taggaggggt gctttttgag 180
 ctgagtctaa aaaaaaacc agtcaggatt aggggaaaaa aggagggagt ggcttccaaa 240
 aggggacttg gaccaagctg agaggtagca tcctgcttcc ctaaaagctt ggcacagtaa 300
 tggggaacca cagacggcac caggggtggg taaaactcaa aaaaaggctc gtttgcaatg 360
 cc 362

<210> 704
 <211> 451
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI100878

<400> 704
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 ggaaggcaga caagtgggtg aactgtagga ctgcacctga ctccaggaag agtgatgggc 120
 agtgagtggg gactgggtcca ggctggtaga cccaccaggg gatctggagg ccagtacctg 180
 agatggtgtc taagccaagt agtatctagc caggccagaa catggcctag agaggtaagg 240
 gtggggcctg gttgggggct cccggcacct aggggctggc atcaccaggg gcctcccaaa 300
 gctgttgctg gaattccagg cgtgtctgcc gattggactc cagcagctcc tggagggcggg 360
 catggaggtg gtcgtttctc tcctccaggt ggtccagaca agagttgatc tgatccaaca 420
 tggagttgat ggcagcatac tttgcttccc c 451

<210> 705
 <211> 498
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101006

<400> 705

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ttgctgacca gaccagcgc tgggtcctca cagggcatcc cctcacacac ctcacaacag 60
ccctgtgagg tagggttctt cttgtacagt ccaacctcag acccctgaga cctgccccta 120
gctctcgagc ttagtataag cagaacaagg gactccaact cttgctttca ttgttctaga 180
aaatacaaaa gctttgggtcc caattttacac taatcttaaa ttttgggggg ttttcaaacg 240
cccatccccc attgtctttt tttttttttt aagtcacatc cctttgggtt tttgagacag 300
gggtctcactc tgtaggccag gtttgcccag gactatacac tctaggctgg cctcaaactt 360
acagcaatcc tctgcctaa ctgtcctgac tgctgggatt acaggtgtat gccacacccg 420
attccacaat tttctcttaa atttgggact gaccactgct gcaaggcctg gggtcagccc 480
ttactcgagt gtgcatcc
498

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<210> 706

<211> 537

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101130

<400> 706

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atttaagtta aaaatattta atatcgata aaaacattga ttgacagttt aacatggcac 60
atttcataca tagtcaaagg gtaaaacatt gctgggaaaa tttatagtct gtttggtaat 120
ttgttgtcca aataaaagca atgaatagtg atatatttaa tgccaattat tacaaaactt 180
ttagagaaaa ctcagttatc tctaacatgt tctgctaaga gagagaaaaa aaaacgtatc 240
ttttaagatc catatgattc tgggctaaat tatcagtgct tttctagtaa tctagaaatt 300
tcttcaaaca gcatttcttc tgttggttaa ctgttcttac tgattggctc tcgcagtagg 360
gaatgaggac atacagcact tttcacactg ttcagtaaaa ccatataaat taaagatggg 420
tgctaagctt aatattttat acagaaatgt gtaatatctt atttaattgg actgaatata 480
ttttatgagt acttgggtac agtggttaagt cccccaatc tgtgatgttt tgtgaga 537

```

<210> 707

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101159

<400> 707

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acagcatcca gaatactttt attgccaaaa tcgaggtaca gcttgctcag gacccatagt 60
gggggtccca ccaactcagg gagggacaga tgataggaat gtgcttaaca aggtaagtcc 120
agcgccagaa acggtatggg aaggcagtg ggtccatcct ccaagtgggt ttgagaccct 180
gacctaaaag ctgatccaag cttatagtca ggtccactgt ccctaaggca ggccgagatt 240
ccccatccct gctgtcacag agactatgtg gcatccctgg gacaaacaaa caaaagcccc 300
tagctgggac tctaagttcc tagctctctt gggggccctt tcaaatctct ggactgtttc 360
cccgcaaac aaacccatt cagctggtag caagtgttgg gcagggactc taccacctct 420
caaccctgtg acagcccaaag tagatggtag aaaggcccca gagcagggcg caccatgggt 480
gtggaattct caagaagggt gctcatggga agctctaagc aagcatgggt attcccttga 540
gctegttttc ttectaggac cttaa
565

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<210> 708

<211> 560

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101167

<400> 708

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ggtatatattc atttttttatt gatagtgaca ataaaattac atatagacta attacttgtg 60
atcccttata aatctttaag gctgtttccc taacacaatt tgcacttcaa agtaatacaa 120
tgaactaaac ttttagaaga caattaaaaa taaaaataca ttaaagatat aagtcacgac 180
aggatatcga gatgggttac aagtgggtatt tatacatttg attataacaa tgtatagatt 240
tttacaagaa gctgggacta gggagttcct aagaaatctt agattttgta cagttaatgg 300
ccagattaat aatgtctcaa gtcctaaagt ccttaaaatg ttcttccaga gtccacaaaa 360
gcaagcagaa tgttgtaaaa atattccttag ttgcatatat ctttttaaat aaatttgaga 420
ttattcagta tgccttacat agataccatt aattgagaat cgctgaggtc tccagtgact 480
atcttttcac gttttcacag cttggatctg atcttgaagc cagtccacgc cttcctgcag 540
tccttctcct ttgagggcat 560

```

<210> 709

<211> 579

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101205

<220>

<221> unsure

<222> (1)..(579)

<223> n = a or c or g or t

<400> 709

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aaggccaaat gtttataatt gaacaaaact gtgtaaacaa acaataatgt aagcagataa 180
tttaataactt tcttagactc ctcactctgt actctgatgt ggacagactc agtaccaaac 240
ttaactaaag gggacaatca tgattactat gcatgacttt ttcttgaaac ggactgaccc 300
tgtttcaatg ttttatttgt tccttcaaag catctcactt ttctttttac atctgttgaa 360
acccttctga agttttactt catgaaaact gtgaatttag ctttacaagg agaataaatc 420
cttttctttt tttttaattt aaagaaaaat atgagatcca ttacacagca gacttatgtt 480
ttacatctta caaaagggtt tgcattttta ttaactgac cagcgtcaca ggatttctta 540
gatcctaaag tcttgaagta cagctgactt tnccttaaa 579

```

<210> 710

<211> 349

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101226

<400> 710

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ttaatatatt tatttgaaca cacataaaac atattcaatc tggggttgacg caaattacaa 60
agaattttaag agtctggtaa tggttatatgc tactccattt accactatgg gatgtctcct 120
gagctttgga tcaaaatttt attggaaatc attgaaaatt cacctgttgc tcaatgaatt 180
gctcaaatga tgcacgact gacaatgtaa ctgatctcaa caccacaggg agaccctgat 240
gtgtaagtag agccctctga gagacttagg taggtcaaag agggagagctg ttaacaatat 300
ggcttgacctg tcccaaatgg gagcactgaa gctagctact gacagaagc 349

```

<210> 711

<211> 473
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101229

<400> 711
 aactctgttg atcacacaat gtcaaacact agaaaaacga agccatacat gttgatagag 60
 caaaatatat ttctcaacaa ctcatgaaat ttgtctcaca aagtatggca tagaacagtc 120
 acagtattaa gtattcaagt aaagttgtgt gttaaaatag gtgcacaggg gtaataaaca 180
 ctgggatctg gccttcagag aggacaaccc atgggacccc atttgaaggt tgttacatca 240
 cagaataggc ttgtttacat tgtgcgtctg atctttatc tcctacaccc cccccccca 300
 gtcctgaaga acaaagatag agaaagaaga atcacttgct acgaggccct gcttcaaggt 360
 ccctcagatg gaaaaacaga cgaactctgg tacttttagt agccccacta cctgggagac 420
 atgactatca ggcttatgtc atttgagttg ataattactg ccaagaagtc ctg 473

<210> 712
 <211> 374
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101256

<400> 712
 aacaatcaca taaggaagca tttattttgag gttgaacatg aagtcacaca aataaaaatt 60
 tgtataaaca caaatccaca ttgagtcata acacagggaa ggaacaaagg acagattaac 120
 aaaggaacta attggcagct atgtacagtg ggacacaatt gtgtcatgta cactacaaag 180
 tctttacaaa ataatcatct taggtcaaca gaagatcaag caaccttcaa tgtcgtcctg 240
 taagatgggt tctttacacc tctgctctc ccagcgtcct cctttagtag ggctggtaat 300
 tgttctgggt attgccacc cctcgggatg ccttgccata agtgctctgc tgaccgctgt 360
 agtctcctcg tgcc 374

<210> 713
 <211> 464
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101262

<400> 713
 aagggatgtg cctttaattt ttatttttatt taactttaat ttatttttgt tttatgtgta 60
 tgggtgtttt gcctctgtgt atgtccgtat agcataagca ttcagtgcc acggaggctg 120
 gaagaaagca tctgatccac tgggacgagc tataggtggc aaaggaggc actatgtggg 180
 cgctgaggaa gcagatattg aatgagtggt atgggctggg gagatggctc agtggttaaa 240
 ggtgcttgca gccaaagggga ccctggaggt aaaagaatag aaccaattcc tgtaaggtgt 300
 cctctgacct tcacacacat gctgtgacat gttgacacac aataccata agcataaaaag 360
 aagagctgtt cagggctagg gagacagctt agttattaga aaacttctgg ctacataaga 420
 ctgaggacct gagtttgatc cccattaccc atgtcaaagt ccag 464

<210> 714
 <211> 391
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101362

<400> 714

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tttttttttt tttttttttt tcatttttcta tttttttttt attctagtag tacagttttac 60
agccattaga tgatcaacaa caagacatca ctggttgga atccatttcc agagccaccc 120
tcaagttcag agcaattgac gtcgaagccg ctgcctttct ttcctaacac tctgcctttc 180
acacacagcg ggagcacgcg ggagcagctc cttctcacat gggcttctca cgattttcctg 240
gtcctccttg tgctgcagga cgctggagga cattccatac tactttgttt ctaaggactt 300
taaagaaagg aaggatgctg tttttctttt tgtccaacat cacgaaggca aaaataaatt 360
gcaagcagcc tcggttactc agaacagaac t 391

```

<210> 715

<211> 210

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101443

<400> 715

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gcaaagtgtc aagggtttct ttttatttta tttttaaaat tttatttggg ttttcttaca 60
gaggttgaca atgtccacaa caggtgtcag agtggtttaa aaaaaaccca cagaaataac 120
actgcaaacc ttttggggag ggcctgaggg aggggactta tctggatcat attgcacact 180
gccctgacca atccttcctt tttgcccaaa 210

```

<210> 716

<211> 590

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101500

<400> 716

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ttttaaaacc tttattcatc actttaccaa cttgacacac aatgttaata acagcaaaca 60
caatgaacga aatgttgaca gacacaagct gttcacaaaa gcaatatgag ccaggccata 120
tgtccaacta ggtgactgga tgccttgcac tataggaggg acagcagggc catcctgacc 180
tgacattctg agcaagcgtg gtttagatgt cagcataagt gtctttgagt caggacacct 240
gtgacatcaa cattacccat cacactgata aagtataaaa ctccatactc cctaacatta 300
ataaaatagt gtaaaaatat atatcacata tatataaact taactccctt tcttgaaaaa 360
aaaaaacttag tacaaactag tagtaatagc atattattcc tttcaagttt aagttgtaca 420
ggcttccttt gttgtttggc ttggtttagt taagaagtct aaaggaagag ataatttaat 480
catcccaaga tggccacacc cctaaactgt aaagttcaaa atggtcagta gtatgttggt 540
gaggaagagc tgtttggtc aatgttgga ggctattctg tctactgatg 590

```

<210> 717

<211> 182

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101534

<400> 717

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tttttgaaa aaaagtgagt tcatttttatt catttcttga taacaggtat tacgggtggg 60
gaaacaaaag gctcagtgtt taaagtagtc aggatccgag gtgcttggtt caaagcaatt 120
acaacaggaa aatactcact gagtgaatgt ccggtccctg atttgtgcc ttcactgcac 180
tt 182

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<210> 718
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101582

<400> 718
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 agagatcagt tcaaggtgtc gtctgcaagc cttaaactcca tggatgatgtc tccagtgagg 120
 ggggtgaaact ccacagcata gctgactgat tgagggccat ccagaggcgc gctaggatcc 180
 agtgtggcac tgaggaagta cacagcttgc ttgcagtggg gggtccagca gcagtcccc 240
 ttgtcctctg cagggttcat gaggccggtg ctgaccgtgc tatctggagt cagctgggat 300
 tccatccaca ggacagctcc atggctcttc ccgggcctcc tcagttccat cacgcccctg 360
 gattgcatag gctgctgggg gatgggctgc tggaaatcaa aagtcaggat ctgtcagggc 420
 tctgagaggc ttctgcatgg gtattccac agtggctgtg gctct 465

<210> 719
 <211> 453
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101708

<400> 719
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 gtatacgaag atatgtacag tgtgtactaa ggatcaaact aaggtaatta tatcttttcc 180
 ttgcttactt ataattcctg atttttatag aaacaaaatg atttaataat aagaaaatta 240
 ttttttaaat ataaaataac tgaaacaggt gcagcattgt ttagatcaac atttgaaaat 300
 aaactcaaac tataggcagt gtgttggttc tcagaccttc aattgttttc tccttcagct 360
 tctgaatgct aactatgaag gttaagactg tctaggaatt acatatcaaa agaagtatgt 420
 atgagcaggt agtttgaaga ctcctctaca agg 453

<210> 720
 <211> 595
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI101901

<220>
 <221> unsure
 <222> (1) .. (595)
 <223> n = a or c or g or t

<400> 720
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 catatataca aaatcatgca taataaaaaa taaaaactgt atacaccatt catggtcatc 180
 tctttagtgg actggatgtg attacaattc actggagtga ttacagcatc catcactcgc 240
 ctgcccctgta aacagtgtct gcttcactctg tctgtgatt agtgcttcca acagtctgtc 300
 tctgacagac gccttcccaa gcagcttctc cgatttgcgc ttatatactg gcatgtagag 360
 aacatttcaa ctgatataat atagagattg ccacagcaga tgcttggtt tagaaagtta 420

tttgagaac tagaaaattc tctacatagg attttctcta atagagaaaa atatgcattg 480
atggtatgtg aatacgtaat ttcaggaggt agaactgaag aatttaggat ctnccttcc 540
acctgcagtg aaagaagggt aaggatctca accccataaa acgtgattag taatc 595

<210> 721

<211> 484

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI101921

<220>

<221> unsure

<222> (1) .. (484)

<223> n = a or c or g or t

<400> 721

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ctgtatttgc agcacggagg gcagatgtcc gcagccctgg gcatgcatgt atctcctgtg 120
gaatcaggca aatcacgaat gcataaatac cacagcacag ccagacttgg ggggtgggtg 180
gggtcacagg ccacagggga ccatgcttca aaggcagtca gaggcattaa atacaggggc 240
taaacggttag agtccatctc accgtacaca taactcatac attaaaagta aggagaccac 300
ggtatgtacg tgcaagcagc tttggtcaga gaaaatgaac aaggggaggtg gagccatgca 360
caggaagggc ttgctgtct actctccatc ttcttcatcc ccacaaagtc acctgggac 420
atagaatgaa tcanctgggc tcggtaggat actgaaaagt cgtgtctggt gtccttaagg 480
gcct 484

<210> 722

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102009

<400> 722

ataagaacag ctttttattc catggtttca aatacatagc aaaccgacca tgttccctga 60
aatttagcaa tgacattcat cacaagcctc aacgctctag tctaaaaggg ctcttcagaa 120
tccacttcac aaagctttgc acagaacagt ttaagcacca gtaagactgt tgtagcagt 180
gctcttatcc ctctactgtt acagtcaaac atgcaggttc aacctatgtg tctgaccctg 240
taaaatggat gccacactca gccttgtggt acaaagttaa taaacacaat ataccaatac 300
aaagttgaag ccattaaaaa gagcttaata acaactacca ggagacgatt aaatctggga 360
agttgaggga atccgaagag gatttggaaa ggacacgcag acgtacatta cggtaaatgt 420
tttactggga agaggtgcga gggaaacttc tttgcgcttt ggaaagactc acttgctccg 480
agcctacttt ctttctgcta ttatcttttag atactgcagg gcattgtgag cggcgctcact 540
ctgggcattg c 551

<210> 723

<211> 384

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102017

<400> 723

ctgtagcata gctcatttta ttgtttaaac agtttttgca taggaaatat atccgcttcc 60

<220>

<223> Genbank Accession No. AI102190

<400> 726

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cagttcatat aatttattgc agttagcaca cagtttaaaa attcaccaac acaccaatag 60
tacaaaacta accagttattg taagttattc cccctcagga aataaaacat actatgattg 120
tcaaagctag atgtcagtct aagattttaca acaaaggaag aatgtgaaac taaggaaaag 180
aaaaagcaat cactcacaat gaccacaaaa aaaaaaaaaa aatccaaaga gtccgttctt 240
tcacagacat tgattgtctt ctctaaatta ataaagatta ttttaacata aactgtatta 300
aaaaaaaaacc cagaaactct tcaagtaact aaagataatg ctccaaggcc attttcacag 360
ctttttttgt ttgcttggtt gcttgcttta aatgccatta cagccaaatt aacatacatt 420
tgaccaataa tttccaaaac agtccagcaa cacacaatga gttttccatt cagtatctta 480
agcac 485
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<210> 727

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102258

<400> 727

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ctccattata aacgttttct ttttaatttaa gaatactgat taacacagga aacattttaat 60
tcatgggact gcatgtgggc accagttaca ctgtgacatt gttagtgtcc tcaaccactt 120
attggcactg ttgacgggta ctgtaaacaa gatcacttgg tttgcatgag tctgcgatgc 180
tcggaagctg tgggtttcta cagtgaagctg atatatatgc atacagagat agggacagat 240
ctatttagtac atggatgtgc acagttttgc atgggttactg agcatcagta aaaattataa 300
aaaaaaccac ccatttataa taaaaaggga gcatatgcta agacttgcta gtactggggc 360
tcgttttctg cacaactggc aagattggct aaagctgggt actaaactct actgcactaa 420
tgcatgatgg gtgttcatcc agaccttccg aacagatgcc ctgatttggtg gggtctgccc 480
taggcagaag cctgcccact aggcttctctg tgtttcatca accttctcta agttctacaa 540
tcttgaattt tg 552
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<210> 728

<211> 625

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102560

<400> 728

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taaggtaatg gttacttacg taagttttta ccttatattg cttggccatt tttttttaca 120
tataaattat tgcttcttac tttgataaat acacagcaca gtcatatata cagaggcaga 180
gaacatgaac tatgagaaaa aaaaatcaaa cactgtcaat ggcagtctgg taagtcaacg 240
aatgtttcat atttaccagc tcttataatg gtggaaaact acgaggtgta gtccctgaga 300
agttaggtag atgcccggcc tgtgggcttt ctatcttcta attgttatcc caagctgaca 360
gcatcatggc agtcctaagc aatgagacgt ccaaaggcaa gagtccttgc ttctgggtcat 420
tgatttcatc ctggtgttta ataacagcgt aatacgaata caaataaata ggctatgcaa 480
ataaatattc ctctgctaaa aatgcttact tagtatatac agctttgctt tatacagtag 540
tacatttctt ccgacttttt ggcaattttc aaaatggggt ttccctagag caaaacgggc 600
ccactcagta atgagtgggc tgaaa 625
```

<210> 729

<211> 405

<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102562

<400> 729

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cacttcaggc acagcacgtg cacttgtccg aggcaccttt gcaaacacag ccctgggcac 180
atttggagca gccacgggg cagcaggagc agcagctctt cttgcaggag gtgcatttgc 240
agtttttgca gccgcaggag ctggaccagg tgcaggagcc gccggtggag caggaccagt 300
tgggggccat tccgagatct ggtgaatctg gagcaacggg gtaagctaca agaaggcagt 360
ccctcgtgcc gaattcttgg cctctagggc caaattccct atagg 405
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<210> 730

<211> 564

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102576

<400> 730

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tttttgtttt tatgtttttt aatcatggag aaggggtaga gaaaacagct accaaaaagg 60
gaaggggaaa cttaaaggct actaaggag gtttagggga tttcaactta ggacaatatc 120
tatgagcaaa aagcaatcac acctgttcc cggatttgca ttaacaaaac accatgtgaa 180
gtcgggggaaa gacacgctgg tgcaccctgc cctgcctccc acctgcttaa gatgggtgta 240
ggatcctctg agccgacccc tgggcatgtt agtccctggc cccaggacag ttctcaactc 300
tgacaagctg ctgtgcagggt gaagagggtg tgtccccttg cagtcagttc actgctgaca 360
ggcttaagga catggcaagg aaagggacat cactcttttc tgggtccctga ttggtctatg 420
ccacatgcc a tggctcctgt cctgggcata tgcccctctg gctctcttgg cctcataagg 480
ggtacttcaa tgagtctggg caccaagtac aggataaaat tattcctatc ttttaaaaaa 540
aatggccaaa aaggctcttt tggg 564
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<210> 731

<211> 478

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102578

<400> 731

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gaaatgtttt atatcaagct atatatatat atctggattc tgtcctgagt acatgcatac 60
aaaatcaaca ctataaaaat aattcacat attaatgtca tcgacaagtt aacatctaca 120
agcatacaaa ggctgtgtgc attgcttgcc ctggccagct cggtaaagca agtacctggg 180
aaaggggaca gaggagagac ttcagatccc agcctcgaac catgaggaag caagcctggg 240
tcagggctga gcagggtttt catggctgga gggaatggga taagtgaggc tttgcccctg 300
gccctaggga gctggatggg gctactcagg ccgttaaaaag gcagactaca gtgtaggaag 360
gcaaaggctg ctctacccaa gacaaataat cactggcaag aaatctctca catgctcaca 420
cgtcaactcc ctttagtggg gtctggaccc cactggacca acatctgtcc aatcatgg 478
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<210> 732

<211> 547

<212> DNA

<213> Rattus norvegicus

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102753

<400> 735

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tgttttatttc catctttaat actagtccaa aacagactga taccatgag catagttaa 60
atgtaacaaa gaaaagagtt aaactatata cattaaggaa aaaggaaaga aaaccttttt 120
ttataccaac cttttcctat taatgcagtt tctgattaga actaaacatg tctctttctc 180
aatttaattt aggatgaagt aatagaactt ttatgatcaa cttcataaac tgtctttaag 240
gagaaaacga atttttaagt ggggtgtcacc atatttacca gtgaactggc tgcattggtg 300
ccttgtctcc ttgaagtctg gctatcatta gaactaacia gatcaagtc atgaggccct 360
cggggaactc aatggctgtg acatccaagg ggagggcaca taccatacat cacaatgatg 420
aaagttaatg ctcttaccct ctgagtccat gtaaaaaaac ttattactct cattcaaact 480
aactgaagtc aaacagttta aaagtcagaa tgaagaataa aactattttc ttttcacaga 540
gaggaggac actccttcag ctccatttaa agtgaattct gtgctgagtc cctgctcctt 600
cagaacagta aactgaaagt cagttattgc tagcaaagct ccagtgggtc ctttcctacc 660
tcaaagatgt tccacacaaa aaggctattg gtttgacttg 700

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<210> 736

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102812

<400> 736

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acacttttaa atataccttt atttctcaaa ctcaaagctt ttattccatc aagttctaata 60
acatatgcac tgagaagaaa tctcatctgt gtcacataag gaggtgagtg accggtacca 120
agaaggaacc ccgtatctct aggcactgcc aaggaatagt tcaagcctat gcagatacag 180
aagagaaagc ttccaattta gtccaaagga aattttactt ttcattccata ttaatgtgga 240
aatagatgct tcaggaaatt taagttttca caaatcacaca caccacacagg ccaggtagct 300
ggattctctt ttgtaaagac cacagatcat gttaattagt tctaccctcc tcagtggatg 360
gtcaactcac ctctctatat aaacacacat gagaatttgc accaaatctc aacagccagg 420
caaaactcta gaactcaaaa attcttgaag cttatacttt aaaagtattt ttttaaagtg 480
acaggtaaac aaggaggcac ttgaattcaa aaaacaaaaa tcaataaaag c 531

```

<210> 737

<211> 565

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI102820

<400> 737

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gaggaggaca cacatccttc catgccctaa cccctgccc gcccacaaact tctacctcac 180
cacaaaagt ttggccaata ggctgaagcc ccacaaagga atacttgaga agtgacatgg 240
cacagagaca tctccacaga ctctggtgtg ccattccctaa gtgacaactg tatcgcttca 300
gaacttaacc cccaaccctt tttctaaaca ttttctctgt tgggggtggg aagaacttca 360
gttaccctac aactaagaaa gtaaagcagc cacatgtctc ttcccacatg ccaactgtccc 420
agcttctctc tctgaggagt gtcttgcttc aactcttcac gttatccctt tagtgtgaaa 480
cctactacac ccacaccatt tacaaggcgc accaggtagg catgggggtca gggcaggcat 540
agctcctaca tacaggaaag cttgct 565

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<210> 738
 <211> 489
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102868

<400> 738
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 acagccatgc gatcacagtt tgggggtggg ggtgtaactg agttttgttt aacgggtctaa 180
 ccgaaaagca aagaaacaac cttttcttct acttgtggca agaaaagtta atcatggaac 240
 tcctagatcc ttctcatgaa gcagctttta aagaaatcgc ttctccagag cttcatcccc 300
 tttgctgtta ccaatgcgaa acggaatggt catcctgctt ctattctggc gctccaccgg 360
 acacacataa aatccttgag aattatcaat aatctcataa atcatttggg atttgacgga 420
 gctgagcttc tccatggctg cggacccacc attgttactg atccattcca ggatcatgcc 480
 catgacgta 489

<210> 739
 <211> 562
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102871

<400> 739
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 caggaagagt ccttcccaag gtgctctcac agacatccag actcactcac acagacattc 120
 ataccgctcg gcccactca ctcacaccag tgacatgtga gggtcagacc cctaaaattt 180
 aggcagctgt tggggaagaa ctggtgggtt tcaatctttc ttagaaaaga aaaaagcaca 240
 gggatgcact tggccatcac gatgctagcg atgtttgtgc actaactcat ggcagttaac 300
 actgagaact cctcctccac tccacacaca gtgacatcag cctcagtctc agtgctgctt 360
 gtactgactt ctcaattcac aggggctttc ccaaaaagta attcaagttt atggaagtga 420
 aataaggcac aattaatatt gttttgacct aacggaagga aaggaaagaa ataaaactgg 480
 tttcaaaata tcttagctgg gaactgttga ctttaattcta ctggaaatcc cttcttcaaa 540
 tcttataaag acatttttcc ct 562

<210> 740
 <211> 585
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102905

<400> 740
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 agtgattaag atgctggatg aatagccaaa gaatattatc aaataacaaa atctcaacaa 120
 caatttatca aatgaaactt tactgagaca taagagaata tgtgttaaga gttaacatgg 180
 ctaaaaatga gacatcacag aaatagtaag tccataaacc tagaacaggc actcaataac 240
 agaagtgatt aggtgagcac acactacaaa ccggtatttg aagcagcttc tagcaccaac 300
 acattggcag gaccagcagc gaggcaggtc attcaaccaa ggcactctggg aataggaggg 360
 agatctcagc caccttctgc ttctactccc ttgtgacaaa gggggagggg gaggctcaga 420
 gactgatgtg tcctggctct aagtcgctg gccaggact gacattgacc accggaaagt 480
 gctctatttg atttaacttg acatatTTTT cctactgaca ggcatacgat gaaagaaaaac 540
 aacaagcttt atagcatagt tcaggatgac atttatttcg ttgga 585

<210> 741
 <211> 573
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI102943

<400> 741
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 tcttcagtgg caggtggcac tggcctcaga cccgtaacca gctgccaggt taagagtagt 180
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 gagccaggcc tcagcaggtg ctagagggat gcaagcagct ggtctggact cccagaaatg 360
 tatctcaggt agggaaactg aggctggggg ggcagtgtag aagggtggga gacctcagaa 420
 ctgcacacac tccagaccag ggccaactcc tgctcagtca ccatcactgg gactgagcga 480
 agggacgctt gcaggaaggg ccagaacctc acgtgggtca aatccagctg ggggaccagg 540
 tgggttcaat gggggcagaa gtgacaacag gcg 573

<210> 742
 <211> 394
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103071

<400> 742
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 ggattcttta gccattacaa atggaactga tgttgacaga ccttaagggc tcccagtaac 180
 ctgctgtcct gcaaaaaggaa acaatgcca tccactccat tgaaacagaa ggcataatta 240
 tcgaacagtg cctagaaaaa agagggggacc gagaaaagta cagtgttgcc tgctaggaaa 300
 ttgcagttgc ttgagaataa taataaaact gagattcact gtcagaacaa agaccttcac 360
 tgcacggaac tgaaaaaaaa aaaaccctcg tgcc 394

<210> 743
 <211> 489
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103078

<400> 743
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 cacctcctct actgctcccg ggacgtgcac tgacaagtgt tatggctaca gagtagggga 120
 ggctgtgtg ggtcctggcc ctctgtggtc ttaccactt agaacctaga atctagggcc 180
 agatctctac acagtttgat gctatcacia agtgggggtg ggagagggct ctctatttgg 240
 gcaagctcct gcagtagcct ttctttgagg gcagtgacct cgactatcgc tgccctgggt 300
 taatatatac agtagcttca tagctcagat gcctatgtcc ctttgacagc ctctgagttc 360
 ccagggtact atgactagac aagggccagt cagaggttgc ctctgacaca cctgggggca 420
 gtggggcagt gtctcaccac ctgttccctt tctccagcgg ttccagtttg tggaaatccc 480
 cctcgtgcc 489

<210> 744

cctctctggg catgttgatc acggcgggtcc tcacgacagc tgacttggtg gggtccccc 479

<210> 747

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103224

<400> 747

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acgcgatcat cttcatttta tttgtaccgt atttgtaaatt tgtaatttc catctctgtt 60
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tcttcactaa agtagccaca gtcttctcag caagccccgt ttccactacc tatcccctag 180
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gaccacactt tgaccacacg gaaagcagga acttaacact gggcagagct gattttgtga 300
ggtgaacaag atgttggcgg tggcaaggaa tggcgacaga gacaagggtg agtgcaccct 360
tcccacacac ttgccctggg aggctgtctc taggtcctca gaggcgataa ggggttcctt 420
ccccaccac tactgtctcg ccattgatgt aactggcatc ttcagagcac aagaaggaaa 480
ctataccgac acaatcct                                     498
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<210> 748

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103246

<400> 748

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agcaaaaatg gttggatagc aaaaattaag ggtaagtatg atcttaactt attattcact 120
ctgacgctgt cacttccttt gtcttttggg tttctgaggg gctttctttt tcctgaaatt 180
cttctttttt ttgatgatac ttttcacatc tctgttggtg agccaatcat cacgctcagc 240
ttcccacttg agctgtttga aacttgcatt gtctttgtta gccatggcgt tcatgccagt 300
cgtatcaaac ttggagccca tattttcatc caacagatga ccaaactctt cagcagagac 360
aaacaggctg gagtcattga aacttttctt ctttttcttt tgtccttgaa atgaccagc 420
aaagtcaaaa tcattcttcac tcttcctctt gcttttctta gtactggcct tgggggtggc 480
ttcaccaaat tctggaacat g                                     501
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<210> 749

<211> 405

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI103548

<400> 749

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ttttttgagg gaggggaacc ctttacttcc ttttgctttt tgtatcagtt gtttgaaaaa 60
cactagaagc agacatgagg ttttctatat attgtccaag aacttgattt tccgatttta 120
gcttcagatt ttcttcctta actgcattca ctcttgaga aagatcttca agtgtgtgct 180
ggagctccaa cacctgatta atgagtcgag tcttttcttc cagttccact tgattttcag 240
catcaactgc gtccatgtca gcattcatca tcttggggaa cagacgttca gctcccgaat 300
gcaaactctt taatgaatgg tcttgcggtt gaagcgccgg gaaaaggcgg gataggtagg 360
acgcctcagg ccgcggctct ccgaccaact gacagccctc gtgcc                                     405
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<210> 750

<211> 514
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103550

<400> 750
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 gtggggagaac agcacaagac gagacaaaga cgggaaatctc ctgcatctga cactgcacaa 120
 cacctcccca caggcccagc atttccaagg agaagacacg aagtctcgga ccaaaatcca 180
 gtggtggata tgggcaagtc acaaaagtac gtaagataca ccactgttat cctgaattat 240
 gaaattccca taaccagtag gtagcatccc accttgtaac tgtggctggt ctggaacttg 300
 ctatgtagac cgaccttgaa ctaacatctg cctgttgagt gctgggatcc catgggtggc 360
 tgtcaccaag cccagcttca taactacttt tcaccacaga tgatcttaag aattctaaaa 420
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 gtgtttatct gcatccatta agaagttggg ggtg 514

<210> 751
 <211> 532
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI103694

<400> 751
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 gttccccagg cagccagggt gtgagagatt tcatccagca acggtacgtg gagctgaaga 120
 aggcacaccc cgacctgcc attctaatec gcgaatgttc agaggtgcag cccaagctct 180
 gggcccggtta tgcttttggc caagagaaga atgtgtctct gaacaatctg agtgctgctg 240
 aggtgaccaa agccatggag aatgtgctaa gtggcaaagc atgaagtgtc tccactgagg 300
 actgaacaag cccaccagaa cctactggac tggagacaat gtggggaaat gtgttctttt 360
 ggttcttata aagcttacgc tgtacagtgt tgcttcagaa tgttctcctc attacctttt 420
 ccctcttact gcgcaaacac tgaggcaaag tagctttata taaaaatact atcttatttc 480
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 gagaccatag aagaaaatgt tacacagacc gaatcccaag cgttgcgat ttaagcatca 180
 ctaactgtac tgtattttcc caaacatctt ggggagtttc gatgggattg ttccagcgtg 240
 cactgaacag tagtgaatta tcatttccat cctaaaccca gtaagccgtc tccggctgta 300
 tttcacccag ctgaaagcac ataagccata ggacatgaaa ggaactgtca ctagggccag 360
 agggcctgat accttggtca gecacaaac actcttggtg ctacagcaac cagtttgcaa 420
 acagaaacga tacaggataa accaaggctc tgtgataaca tcagggctaa gtatcccttt 480
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<210> 753

<211> 573
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 753
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 aatccaaaaa gacataattc attctgagtc cagatcagag tcagggtcac ccacggagac 180
 ctctgcagtg ccagggtgtc caagccaagt tcccccggtg aggaaaaccc aacagactac 240
 cttacgaagg tcctcctttc cactcttcag tggcggggtc tgaacatctg aaaaccagta 300
 agcgaggcag atgggactgt cccgaggctg gggttgccga gtctcaggca agcaggaggc 360
 taaggtaata aactaacctt caatataaaa actcccaagt aatcaaaagc tgaggggacac 420
 aaagaatcac aagttaagga ctgagggtgcc atgactgtca tttcagttct tagcaatgga 480
 ggaggcacaa atgctaagaa tcaaagggtca acctgggagg cttagttagg aggactccat 540
 ctggctgtgg tgcccatgct tttaaagaat ccg 573

<210> 754
 <211> 398
 <212> DNA
 <213> Rattus norvegicus

<220>
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<400> 754
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 gtcttgctag ccaagaagaa catagctttt taaatgccaa tgaatcacat ttccacaag 180
 tattaagact ttaatgtctc cgaataacaa ctttttaaaa tgcacttctt atttattttt 240
 ggtttttcaa gacaggggta atttgtgtag ccctgggtgt actggaactc actctgtata 300
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 ggcattgcacc acaccactgc ctgtaattta agaatttg 398

<210> 755
 <211> 648
 <212> DNA
 <213> Rattus norvegicus

<220>
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 tcagagctga gaacgaggtc ctccaggccc aggtgggtca gtccgtttca ggggtgggcag 180
 tgggagcctc aggctactgg gaaataatgg ggcaggcgct cctggtaaat gccctcgtcc 240
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 gtggagatgc atggatagcc accgatcgca gccggtgctc cagcagcagg tccaggctgc 420
 tcaagtagca gctgcgaggt tcagccgcct ggctggcagt gggttggccc acagcgatgg 480
 gccccaccgt gtggatgaca tgcttagctg gcatccgata gccgcaagt atcttggtt 540
 tgccggtctc gcagttctgc aggggtgcggc attcgtccgt caggaaggat cccgcggccc 600
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<210> 756

<211> 590
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI104254

<400> 756
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 gtgggcacag ggcagctcca ccctaaacgc ttaggtaagt ttttgccaca accaccagct 180
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 cgcataccct tagaacagaa tagaaccggg aaacaacccc aacagtcggt cttttacaga 300
 agatagaaat tgccttttgc acagctgatg ttgaaaaaaa atgctattaa catgtttgtag 360
 aaaaataaat accgttcaat agactgcctg ccatccagcc tgaacttaca gggcacagcg 420
 cgcgccaccg gcttggtgcc tctcctagtt actggccaca tgattcagaa cactttcagc 480
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<210> 757
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI104482

<400> 757
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 ccatgtggtt gctgggattt gaactctgga cctctagaag agcagttagt gctcttaacc 180
 actgagccat ctttccagcc ccagacatga attcttaagg cttgatttat gaaaagttct 240
 atttatcagt gctgtgaagc aatctcatca tagttgctaa gttaatccag gaaaaggctc 300
 agagaagtat gtgccattca agtccttgga actggaactc acagtctgtc cttcttgtga 360
 ggagtcttgc cattgtcgtg gaattcacag ctttggtttt ctggtaacaa agctcatgat 420
 tgcgttgatg cactcctctg acagccacct tgctcgtaaa gtagtgcact cctcctcggt 480
 aactgcatgg agcttttctt tctcattggt cctgattaac tctttggaaa ttctcatgga 540
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<210> 758
 <211> 586
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI104523

<400> 758
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 tggtcacaga ccacattctc atgtttacaag attcacatct ctggtaatcc aaggactgtg 180
 gtacaaaagg aacacttcat agctgggggtc actacagttt gctagaaaca tcagttactt 240
 tagaataact taactataaa atatattgaa tttccatata ttaaccatat acatgtgtac 300
 ctattactaa atgtagtcag ttgtttacaaa ataagacatt ctgagagcag gctacacaca 360
 cacaccagcc tgaactcccc ggggtgaggcc ctgtgccatt agctgcaact gtccatccaa 420
 actcagctcc tgactatact cgtggccaaa cataccaca aggcactggc aaccagctcc 480
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<210> 759
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 catttcttct actgtccac tcagcatagc aattcagcaa atgatcaaaa gggtttaca 180
 tgcataaatt agtccatata agaattcatt caatttgaaa aatagccagt tccgtcatat 240
 atgccaacac accaataagg tatttatgac acaggatctt tattttccca tccgtgtgtg 300
 ccgaagctac agacgttgag acgcgaacca atcttgtggc tgataagtga attctgaaat 360
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<210> 760
 <211> 477
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI104659

<400> 760
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 acttttttaa tgtgtaaagt tagccaactt tgtaatacag taactccaca tggcagtgct 180
 catcggcaga gaaggaaagg ctgagagcaa ggacttttagc taattacaag tgttaccaat 240
 taattacaag gagcgccctg ccgggataac attcttcagg ccaagactga ggacacaagg 300
 tctgtaaaag gcaaagacaa tcatactggc aagggtataca acaaattctg gccaaactgag 360
 atcacaaggc tcaacgccat caggtgtttc ctgagaacct gacggcttct cagaagcacg 420
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<210> 761
 <211> 439
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI104675

<400> 761
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 gtcctctgga tagagagtgc caagggtacaa aagcacaaaa gccctcatgt gggaggaaag 180
 tgagcttcat cttgttacat cttgatacga agagcccca cgcgtatcct caaggggaagt 240
 ctggtcctgc ctgcagtggt gctgcacaga cttgagcttc tcacagactt gagcttctcc 300
 agttaggcag gtaagtggag aagacaaggc caacctcagg tactgagggt gcagggaccc 360
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<210> 762
 <211> 485
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104683

<400> 762

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gtgcctggga agctggcttc agtctcagat agaaatagga ggccaagaaa tgtcccaggg 420
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<210> 763

<211> 373

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104798

<400> 763

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acacagatat aaggcagcca tagcacagct ggcagagagg atcctggctt actgttgggg 180
actcccacca gcctggatcc ccaaccctga gacctgggtg acaaacctca gtgtgtgtag 240
cataaaagag atccaagctc cctttgagct ccacagagcc ttctgcagct gcctcctgtg 300
aaactcaggt gaggccagga agttccaaac ccctgcctat tcaactgaaa tcctgtgtaa 360
cacagtgtct gcc 373
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<210> 764

<211> 422

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104897

<400> 764

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ca 422
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<210> 765

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI104908

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 agtgagggag gaggaaaagg catatcaa atgaggaacat attaaagtga gtatgagcaa 480
 aatgggtaca tagcctctct actcgatagc tatgattagt attaaatagt gaattgagga 540
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<210> 766
 <211> 503
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 767
 <211> 703
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 768
 <211> 575
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105113

<400> 768

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<210> 769

<211> 596

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105131

<400> 769

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gactttctgt tcctggccac aagccggcag agtccagcag tgaggggctg gttgaagagc 540
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<210> 770

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI105145

<400> 770

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<210> 771

<211> 641

<212> DNA

<212> DNA
<213> Rattus norvegicus

<220>
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<210> 775
<211> 572
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI105205

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<210> 776
<211> 504
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI105243

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taaggcaatg ggaatgagac cagactgaaa ccaatactac tctccgaaac ccagagtagc 480
tgcctagctg acagactgc cctt 504

<210> 777
 <211> 649
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI105417

<400> 777
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 ctacgtaaat gccacaaatg cacaataccg tttccttgct ctatttacat agctgatata 180
 tctagtcaaa caaaaagatt ccaaagaaat aacctcgaaa cgcttgaaa aaaattattg 240
 cttttctttt tctaagtcag gcgggtgagg ctgcagaaag gaagagttct ggtaggtcaa 300
 ttacagtttt gtgattgctc ccgctaccgt gactgcacat ccaccagggt ccagtcacga 360
 gaggacagcc tctcacactc ttggtagcat ccgctcagcc tacaacactg aagaagaaaag 420
 ccacactcaa gacacaagga aaacaagtca gtccagtcta gagaagaaca ttccgggaaa 480
 cagagtacca acaccttctt agaacatgga aattaaaaac aactccgtca gagctacctc 540
 gccaaaggagc atgttgaaaag tccaaaattg caccattcat cagtgtctca agccctgtgg 600
 cagcgtctca gtcacttacc acaaggaaac aatgagtttc aaactactt 649

<210> 778
 <211> 588
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI105444

<400> 778
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 aaacagcatg ttcctcagca gggagctggc cacgggcagg gggcccctgg gcacccaccc 120
 ctaccagcag gggaccacga aaagaagccc tttcttctgc tgctgtgagc aaggctggaa 180
 aaagagggct cattttttct aggggaagta gccaggatca gaaatactga gatgtgggct 240
 ccccaaactc cagcggatca acaaatgaat agaattttca tctctccaaa aatccgtcac 300
 tgttggggcg ggggcgtccc agtcagggga cgatgggtgc gacatggctg ggcctgggtc 360
 aggaactccc agtcccagtg ggctctggcc gctctgcaca cgtgaacgga tacagagggg 420
 gcttctacac ggtgcgatca acatttcctt tataaacgtg agtggattct ccaggcaaac 480
 tatgcactat ttcagtgttg gaaagaatca aaggaagtta aaatcagagt ggagttaaaa 540
 ctgtgctaaa ttacagtagt gcttattagt aactagattg caaaaggt 588

<210> 779
 <211> 380
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111344

<400> 779
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 actattttga caaaagtaaa atgtcagaca tgcttcttac ttccgtcggc cagtaagtac 120
 tgctgcagtc atttacactg gtttagagagc atctaccagg tcatcgtccg tccactcctc 180
 ctcttctgtt ttgggtttct ttgatacata gtcacgtctc tcgtagcctt tctcttctt 240
 tgtaaccata ttaagtgcaa ggtcagaaga atgacatcgc tccaacttct gtttcagaat 300
 agcaacttct tcagatctgg gtggctcata cttttttact agatttctca tgcttttcat 360
 tatatccagt agctgtgaca 380

<210> 780
 <211> 448
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111401

<220>
 <221> unsure
 <222> (1) .. (448)
 <223> n = a or c or g or t

<400> 780
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 ctggtgctgc ctttagagtg gctacctatt ggcaacaagc gccctcagca gagcactgat 180
 gagtcctcag agctcgtcgg acgtgatgtt caccctgggt aggttacatt ctttactagt 240
 ttgacagctc tgaagaatgt cctggtagtg gttcttcaga tcctcatata aggcaacagt 300
 tttctgcgag tgagctaagg gtaacacctt ttcattcagc agcatttgta tctggaattt 360
 ttcttgaggg gtctgtgcgt cttcacaaatg gtaaagcaca natattaggt ttgaagcata 420
 tggtagcatg tgaccacttc ggaactcc 448

<210> 781
 <211> 413
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111413

<400> 781
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 tgacgatttc cagttaaaaac cgagtctggg tggaggggat ctggaaaaca cgaaagatgt 180
 caaatggtgg cgctgggtggc agtagcagca gcggcagcag cagcagcagc agcagcattc 240
 tgtgagagga taggtctcag gtctctgcaga gactgcagag acactttgca gtcccaaggc 300
 caccacacgg ggccccagct gataaataaa cagcgccaca cacacacaca cacacatata 360
 cgtgcgctgg aaacgagaga caaactggaa gtctcctgca gtgaaaaaat aat 413

<210> 782
 <211> 465
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111558

<400> 782
 tttttttttt tttttttaac aaaagaaatt tattaccaa atacaatata taagtcaata 60
 catgacaaac tcctgtaaag caaaataaat tactctactt ttggacagtt ctggaaatta 120
 agaggtgcca gagagagagc tgctctcttc taaacagggt gcctgctcta ccacagacaa 180
 ggcttgacgc ttgatgtgca acaggatatc accaaatacc aatcatccag ttttaaagaa 240
 tcagcgtcag aatcaactct tgctttttta catggtgttc cagaagtttc tctacttggg 300
 ctacagaagc aaagccatag tgttacacaa tactttattc tttaaaaaaa aaaaaatata 360
 tttatttatg cccatgaatg tcaaactcaa gtttcaatta aatatattta tatacaatta 420
 ctttgagcac cttgctgcac aattttaaaa aaacgcctcg tgccg 465

<210> 783
 <211> 478
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI111559

<400> 783
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 agttaatcat gctcttcctc ggaacctgaa aaatgttttc tttttttaagt ttttttttta 120
 agtgcattgca aaaggagtga agcctttttc tcttcatcat tttttattgt aagaaaatac 180
 acagtttgaa aggatgaata atgcagtatt tatgaccaca gatagggagc gtgggtaggg 240
 gaaggagaaa taaacagatg attggacaga gaagacattg aactccagag actgaagcgg 300
 gaggtgggcg tgggggaggg gaggaacagg aggaggaagt aaaaaaattt tgatcagaga 360
 aacagttaaa atacaatatg aaaataagca attcctctcc ttagattccc tctatacaca 420
 aaatacatga tttgccaaag cccaattttg tgctactggg attccctcgt gccgaatt 478

<210> 784
 <211> 504
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI112012

<400> 784
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 ccatacaaca agcttggttc cattataatt ccatcagggtg ctcagggtatg ttcaatgagc 120
 tgagatagag ttgatgaagc atggccttta ggtcaggact agctgggttc aggcacatct 180
 tgtgtagaaa tctaaggagc ctggggcatc ctctcccagt taacctagga ccttaagtag 240
 cagtgcctc cccctcccc ttcagacaca atgtgcccac cctattaaca gtataaaaac 300
 cacaatacag atgtgaagaa atactgtctt cccatccctt cactaaaatg ccaattaact 360
 acgctcccta aaccatgata tacatttttac aataatccgt agaaaacaac agctaccagt 420
 catgtacttc tgcacagctc acatacatgc acagaagagt gggttcccag tcagaagtga 480
 gagtgaagac ttagagcacc catg 504

<210> 785
 <211> 505
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI112086

<400> 785
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 gaacctgtgt cagcaaagaa ctgattttca tacagacttc tttcgccacc aatgtaacga 120
 agtaagaaaa taaaaagcac gcctttcatt ctgtaaaaca cttacgcgta ctactaatta 180
 gaggtaatgt ttttttttaa caagccattt tacaagtatt tttttttttg aattttcagt 240
 ctatgcatcc aaaacgagag caaagaacac aactgtttatc tttgtaaaaa cactccaagc 300
 ttgtatggca aagccgtgta acagatggat aggatggatc tgtagccttc tgacctctgc 360
 tggagtatca gggcacccat ataccctaatg gaaatcaaaa ccaaaagaga aaaaaaatgg 420
 gaaggggatt ttaaaatgac aagaaagact gaaacaaagc taacccaaaa ctcagcagga 480
 aagaaaaaaa ctgtgtgtgc tacta 505

<210> 786
 <211> 523

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112107

<400> 786
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acaacattgt atataaatgt tcataagcat cttattcata atgtcccaa ctaaaaacag 120
ctgatgccca caccaatagg atatattcat gtaacagaat actactctct gaagaaaact 180
gactcaagta acaacacaga tgcttttcac agcatgctga gtgaaatcac acccaaataa 240
aaaccatact gactgatttc gtctaataca cagcagacag cagtggctta gtgacgattg 300
atggatgggc cctactcaag ggacctgagg cgacttggat gatggaaatg ttctctatth 360
tagttgtgga gatgagccaa caggtgccac ttccgtccaa ttccttaagt gtggtttccc 420
atgggtggct tcattagaac tcactactgt gcttgaagag gaaacagggc cactaagcct 480
gcctcgctcc tctgcacctg cacctgcacc cgcagggtc aca 523

<210> 787
<211> 348
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112161

<400> 787
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gttagtaaaa tagattctac agagtacagc cctatgcaca gccctccctc cccaaaaata 120
atcctggggg tggggggaat ctgtctcccc acccggggt cctcagatat aaagtthttg 180
caggttattg ttattatcta ggthttggccc accatgtcca ctttctgtag tggctgggtat 240
cagtacctac ttttctcatt ccagaccagt tcagcaaaca tttctgcccc accccaaatt 300
gtggggccta aataaagagc aaatagggtc cctccactcc tcgtgccg 348

<210> 788
<211> 326
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112194

<400> 788
tttttttttt tttttttcca aaacaccatt ttaataagga aacaacagaa ataaaagatt 60
gttctctggc tggagcccag accccatata atacatcata tgtacaaagt gaccttcggt 120
ccagactgag attcctcctg gggattthtt acttctgttc tgtgccacat tcttgggtcc 180
ttggacatct gtcgtctcc agaatgtacc tgccataaca tagtggcagg aagggggaac 240
atcataagtg gcttatacga gggatagggt ggaaaaggga catttgtaac agccagataa 300
tttcaaggaa gggctthtcc tctca 326

<210> 789
<211> 475
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI112365

<400> 789

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acagaaaatt cctaattccg gtaactaaaa actcccaccc gccttgtgtc cacaatatcc 120
aatctagatt ggcttgatct tgaagtgtaa tccaataagg ctgaagacta aacacttcag 180
gtcctggaca agataataaa acactcgcaa gccttctgga tccttggact ggttgacatc 240
aataagggaa ccaatttttg atgttgtaaa agaaatgtgc tcattctcaa tgacaatttc 300
gagttcctgc cggcccactc gatcaggagg gggccacaga gcgtcatctt ctttggtgat 360
ctcactgtcg tcaataatcc tctttaattc ttccatcaca ctcttatgta cataagcctc 420
tttctgac atgacatcat ttttgtaatt gctgttggtg gcatatcgca attta 475

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<210> 790

<211> 460

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI112511

<220>

<221> unsure

<222> (1) .. (460)

<223> n = a or c or g or t

<400> 790

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attaacatca aaacaatcat ctatttagat atgcttttct gtaaaaagga aatatattag 180
cagcatttat attttccgca atcacacagc ctacagacat gcagactaac tctgtatcta 240
tttgagtgta tgtagtgtt tgccccgcat ttcgaacacc aaaaccaccc tggcagctgg 300
gggttggttt tattttgtta ttataaaata actgaaaaat aaaaaaggca ttaatttcta 360
caccagttag aaaaacaagt ttttgactt acctaacatt tgattgtcta aaaaacattt 420
cagtttttaa tctttcaaca naagaaagat aaaaatgaca 460

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<210> 791

<211> 476

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI112571

<400> 791

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aaataagcag atgataaac gatgccaaaa atagcttatg ttaagtgcac ggggtgaagc 180
ttgaatgcaa gctaaattgc aacaatgtat tgattcgaca tttaaataca ggacttgcaa 240
taaaataatc attgagatat atgcttctac ctcttaccga catttttagaa actaccctct 300
acacgtagat ccagttgtaa cacttgacag tagcattatg gagcatggta taactttggt 360
acacactgca gatatggata gtgatttccg taaatgacag tccttcacca gatgaagctc 420
tacacagacc agccacctga tcccacattg ttcccaaca ctgtttgtcc ccgagt 476

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<210> 792

<211> 372

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI112926

<220>
 <221> unsure
 <222> (1) .. (372)
 <223> n = a or c or g or t

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 ttcactctgct taagattcct ctgtgagagc aaaaaagagt gaagagccaa agaatttgac 180
 ggctagaagt taggaattct ggtggctggt tcatagatca caaagtgtct ggagaaaagac 240
 actattttcct atcagcaaac tgtgagggtg tgactcgaca cagacatatg aactcacttc 300
 aaatgctttc gtctgtgtgg accattatac caatgtggta tgacanacac acacacacct 360
 aatangagct aa 372

<210> 793
 <211> 539
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI112964

<400> 793
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 tcaaccattg acctaggtag gtactgagta ttttttttagg taaatcagcc ataatcctat 180
 caaatgaaaa actcctcctt cctacctatc tttttatttc ctttgtgcat ttactaaaat 240
 tgctccatgt ctagacacta aaacaattca cctccacagc aaagcttaca aaatttccag 300
 ttgtaagatt ttaaagaatg tccctttcta tgcgtcttca gtcacatat cctgatcagc 360
 tggctttcag agtctacgta gatttgtctt acagggttca ttcattttaa agtgcaaggc 420
 tgcttttagta tccttaatta gtagactgac tttttctgac ttgatttccg atccagttgg 480
 aaagaactaa gcataggact gcatacttga gctctccccg aggagagaat ttctgactg 539

<210> 794
 <211> 493
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI112969

<400> 794
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 catatgaaat atagccatga ttcttaattc tgtgggagga aatgagtaat aaatacactg 120
 tagcaagttt agaccacgag ggcgttgtca ctggttaacaa catttgaaaa ctgtacactt 180
 gcgaagaaca gcatgttcaa acattagtgt gtctgcatca gtagagcttt tacatgtaac 240
 aaacatgctc tttccatgta tgacaaattt aaaaaatatg cattgcttgg caacatgaac 300
 taggcaaaaa tatttctttg ttcactgact ttatacaggg aaacaggaca aaagtcatgc 360
 atgtacaata cagatgcctg cacagggcat gcaacaaaag gacgcctttt gaaagtccgc 420
 ttgctgttagg cataaatatg tgaggggttat atattaataa gggaggaagt cttctgttcg 480
 ccatgactaa cat 493

<210> 795
 <211> 461
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113008

<400> 795

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tgtaccagac tctggagagg gtctgccctg agcgcgtggt gattgctctt gctgttctag 180
taggcacatc gatgttatag tattgatctt tggaaaaggc gtagtaatca tagccgtcag 240
gttttctaatt gttgggcagt gttatcgcgg aagtaacgac atttgggaac cctctccaca 300
gtgtgctcac cttgtcttca ttgtggagga agcctttgtc ttgataagag gctttgatgg 360
gcaccgagta atggatcctg aagggtgtgtg tctggaaagg tccaacagca cgctcaaagc 420
ggcgctcct gacctgtgt gectgcccc a tacactgagt a 461

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<210> 796

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113046

<220>

<221> unsure

<222> (1) .. (492)

<223> n = a or c or g or t

<400> 796

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tactttttga cccatcccc atccataaat cccactgaaa ccaatacctt ttggtattct 180
aaaattcctt ccattcctga ttttcatcag tttttattga gtactagatg tgggaagcatg 240
aaaatgtaaa aaaatgatga ctgaattaat gagggaatgg tgatgggtag atatgaaaaa 300
aatggtttat tgatcaaata tctggaaata caaatacact gtttttcttg ggaagtcctg 360
aggtcagggc tctggcgaaa cacttcttat tctactgcgtc ctcaggcatt tccataatct 420
gtgctgcang gagcgctgta ttttgcaact gcaaactcat ctttctcata gtaatcgtag 480
actttcacta cg 492

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<210> 797

<211> 346

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI113055

<400> 797

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aaaaaaataa ttacattac aaaggtaccc ttaggaagga aatactgacc aaaaatttgg 120
taccatga ttattcaaac aggaaacaac ctgcaatttc cctggaaaaa ttcccgttgg 180
ggtttttaac tacttcatta caattatgaa aaataaacag gccacctgtt taaaaaata 240
tccattccca attttcaaaa aaaaaaaaaa aggtcaacct tgtaccttca aaactaggta 300
tcaaaacttt aggccagggt atggaggagc aatcccttac ttctac 346

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<210> 798

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136478

<400> 798

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cttcaacaag agcaagtgtc agaactgctt caagccccgc gactcgcacg tgctcaacga 180
cgaggacctg acgcaggcaa aacccattta tgggtggctgg ctgctcctgg ctccagatgg 240
caccgacttt gacaaccagc tacaccggtc acggaaatgg cagcgacgat tcttcacatc 300
ttatgagcat ggctctcttc gatatgccct ggatgagatg gccagacctg tgccctcagg 360
atccagcaga gacttggggg gaagagaagt gtcaacatac acaactgcac tcagcctcgt 420
gccg                                         424

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<210> 799

<211> 380

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136514

<400> 799

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acttgatgaa gtacacagtg ggcttggctt caacctgggt tatgacctg ccaactctct 180
tggagccatc atctttggtg tattccacgt gtttacctat cagtccatcc accagctcca 240
ggtcaatgtc taaaggaggg ggctcactgg accctgccat gatacggagg tcacctctct 300
tataatcatc ctgtgcttta catgtaccag cttctggatc tttctcataa gtaatatata 360
agctggcctc gtgccgaatt                                         380

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<210> 800

<211> 352

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136630

<400> 800

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atgaagccca ggctctccag agccaccatg tggactggaa ttcagggttc aagatcataa 120
atgcagactg ccttagacac tcagaacgct caaagtcagg agacgtaaga aatgaaaagg 180
agactgggtc ttattgtaca agaggctgaa ggtatgggtt gtccccgcgc ggctggaact 240
tgtagccggt gagcacgaag aaggccaggg tggaaactct caccaagagc tgggtacagc 300
actgccactg gaagggcact gccactcgaa gcagaatggc gatgatgcgc gt          352

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<210> 801

<211> 282

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136702

<400> 801

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aactacaagt ctgtctttgt ttacggccct ttgttttcct ttaccaaagt ggggtttccc 120
tttcctcctc atcagctttg gccaaaccag aggacttgta aggaaagcag agcctgcaca 180
gtgagagaac actgccttcc cacatcaaac cccatgacag acatacagtg actcagtcac 240

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282

<210> 802

<211> 435

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI136714

<400> 802

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catgaattta ctgtacaatg acagtgtaca tggctagggt aagtaacgtc accgacttca 180
cagtcagctg taaagagtgg catttcactg gatgcctcga gagacagtcc tgttggagta 240
tttgagttaa aagactttga aaggaaagag aatttggtcg aaaagtatcc ttttcttttag 300
ttaaatecaa acaagtctcc agtcagcacc cagtcaaaca cagtgttttg aactttgggt 360
aatttgctcg acagtatact ccacgccact gtggaactct ggagaacgga aagggtttgg 420
cacagcctcg tgccg 435

<210> 803

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137049

<400> 803

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tctagctttc tttataagggt tcaattatct tctttttaca ttaggattat atctaaacag 180
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aatgtgtgga agcttttctg ctccaggaca cgtagccttc ttgaatttct tgaaattctt 360
cagttcacca cgaccattta gtgggcacag atttctggaa gagttattat ggacaaccag 420
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<210> 804

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137211

<220>

<221> unsure

<222> (1) .. (446)

<223> n = a or c or g or t

<400> 804

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aagaacgtcg tcggcttttc cttcctaagt ctcatacatg agtgggatga agatatagga 180
actgtgcctt ggggaggggt cactgtgtga gggctggtgc anaagttgct gggagggggac 240
tctgtgcatt ctgtccacce agagaaagac agatttgctc acgctcactg caggcgatgc 300
tggccttgcc gagcaactag cacacataga cataaggtct aagctggcca aggccagtga 360

gagaatggat actggttcag gagggcagct gaacagcaag agccacagag agagagatta 420
 ttctctgaggt angaactctg tatgca 446

<210> 805

<211> 399

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137345

<400> 805

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 ttgaggccag cctggtctac cagagtaaga cctctctcca agaggacgac agaagctcgt 180
 gggctggacc ttgctgttg gaagcccagg tccccgtagg ctgagtgctg tctagtgggt 240
 cagggcagag taggcattct atggttgggc ttaggggttca ggtgttaagt gtctgtctgt 300
 ctgtctgggt aaagggtctt gattcttgtt ctacaccagg gtcttcatgt tctttgtacc 360
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<210> 806

<211> 392

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137356

<400> 806

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 accaaaccca aatctttcac agaacagcaa atactcttaa tctctgagcc tcttcatgtt 180
 tcttaaataga acaataaccc ttttgtctac tggcccagag aggctggggc cactgatcta 240
 acgtggaccc accatattgt gctgcacgag gtagcgaatg gtctcccgga tgccagaact 300
 gatgagggtg gacgtatagc ccaagaaaat ggtgcagcct gtgagtgggc ggcgggtctg 360
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<210> 807

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137406

<220>

<221> unsure

<222> (1) .. (540)

<223> n = a or c or g or t

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 gtcccttccc aagttggaca cacctggata cattaaatgt tttatttttg tgacagacaa 180
 ttctttttat tttagttaga tgttttgaat gcttacagta aatctgcca ttccgggagg 240
 tcgcagacct cctggcctcc ccccaagtct atgatctcat tttcacagat aaacacccac 300
 ttctcagacc agctacccaa agcatgcatg ttctcgagtc ctttgcaaac cggttatttt 360
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tgctctaacc tcttgagata tgggtggcccg ctggggggagt ctgtttggct tcatttgacc 480
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<210> 808
 <211> 519
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137420

<220>
 <221> unsure
 <222> (1)..(519)
 <223> n = a or c or g or t

<400> 808
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 catcggcaga ctcagaggcc aactgcatcc tctcatggtc ctgatgtca tccccaggcc 240
 tggcggggtc agagctgtcc tgtgggctgt catgcagctc ttctgaggag ccaccctgg 300
 ggccatcctc caagtcctgc ncgtcttctc gtgctccatc ttctgtgttc tctcccttct 360
 ggcatgcggc ttcaccattc acaggtgctg accgatcagt gctgggctca tcctccgcc 420
 gctctctggg agcctgtcc caggctgttc ctccacttct cgcacggcc cggtcttctc 480
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<210> 809
 <211> 416
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137468

<220>
 <221> unsure
 <222> (1)..(416)
 <223> n = a or c or g or t

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 gcctgggggc cagcacagga acagtgagag gtggaagagt tggggcaaat ggagaggagc 180
 ctgagggaga gtcagggaa ancattcctg gctgagggaa tggggaatgg cagatgctgg 240
 gaatctgcat tctgacatgg gaccaaattg cttcagtggc aagcggggta cccttggccc 300
 gcacccagc tgccatcctc acaaggtcnc cagctctgcc acgtccagca gtcgctgtcn 360
 cctcacggcc tcggggcccc cacagagtgt gtcgttctgc gagaacatct tatgtc 416

<210> 810
 <211> 432
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137488

0082660

<400> 810
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agggtaaaaat aaccgggaga ctttcttgct gttgagaagg tcctgtctcc ttttcagggt 180
gatgaagccc accagacatc acaaacaact gcaacagggt caccggcagg cagcacaggc 240
aatgcctcat attcagatct tcacagttgg gcatagtatc ttgtacactc tggtgaaatg 300
gttctcacag caggagcatc acagccagac tggacattct ctcaaagggg tacgagttgc 360
agttctgaag gccctgggt ttggttggtc acaaagttca gtcctgttta ctgtgatcct 420
tgcctcgtgc cg 432

<210> 811
<211> 490
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI137506

<220>
<221> unsure
<222> (1) .. (490)
<223> n = a or c or g or t

<400> 811
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gggttgacta ctttccttag gaagagcagg ctctgggtgg tcacctcca naggagaagc 180
aggaagggcc tgtaaagtg ggcgtgtggg gctgacgtca tggtcaggga tgggggctgg 240
gagagcaggc canaggcagc tgcggcctca gttcccttct cgttcattgtc cagcagggcc 300
ttgtgcgata ccctggagac agttttgttg agctgcccc taattcctga taggtcggct 360
tccacgtcaa agaggctgct gaggccaacg aggggcagga tctcttccag gttgtagggt 420
gcagaaactg aaaaccgtgg caggtgcaaa tccaacagac tccacgtntg agtcattctgc 480
agggtgcttca 490

<210> 812
<211> 522
<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI137572

<220>
<221> unsure
<222> (1) .. (522)
<223> n = a or c or g or t

<400> 812
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gtgagttact gtaacctccc ttacaatcct ggttcttcac aacaagtcgg gcagtggttt 180
tccaaaccgg accgcgaagc ttctcatggt tcatcagggt gttccattaa acatgcacgg 240
caaaaaggcc gttttctcgg cattaaaaac agcaaaaaggc agggagtggg gaggtgtatg 300
tggtcttana agtcaagaga ggtgtcacgc cccgagggga ggagaacgtg agtctgtgct 360
ctcttttact ttgggttggt gaatcccagc atacattggt cagccagccg gtgccaccgg 420
atgcccggaa cctccttggt gagggagtgt ctgacctctc accatgcacg gagaaaattc 480
cgttgtctct taagacatct cagcttccat ttggatgagt tt 522

<210> 813
 <211> 415
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137586

<220>
 <221> unsure
 <222> (1) .. (415)
 <223> n = a or c or g or t

<400> 813
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 tattaaggcc cttcaggcag agttcaggag ctccctgtatg gctgcctgct gctccggact 120
 gagttgagct atgcattcag tccacaatcc tccagaagtc tgtacttggc gaactacatt 180
 ggccaggcgt ttggcacagg ggtcttcatg tttgatggcc tcatgcattt ctcccttctgc 240
 aattatactg aatatttttcg gtagattggg attattttggg ccaagaacaa ttggatgatt 300
 actttcaatc aggtcacaca ggtaactgaa ggtctggaca gcttcttctt tatcttcatg 360
 tanggggagc cagcacagcc agtgtggtaa gacctctcc acattcacgc agtca 415

<210> 814
 <211> 607
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137761

<400> 814
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 tattgcaaca gtactttggc ctatggagtt tgataggatt attgcatca gtcttatagt 180
 attgtagact gtgtgtcctc tatgtctagt aataaaaaata ttccctctgac ctccagtgact 240
 caccacacac acatattttct accctatggt gagcactgcc ctttttaggtt gtactaaatg 300
 agagaaaaag tttttgctcc tgggttttcc aagagtatac agagatagca gtcacttcca 360
 cagttaggta caatatttaa ctttgagttg aaaaataaaa cagtatccta tttatgccct 420
 ttctctagga gtaaaaagac acacacaatt acaaacataa aatgaatcaa agttctatct 480
 tattgacagg agtccaaatg agtataaacc tgcctccttt gtatgctgtt tactgccttt 540
 aaaaggctgc tgacagagtc aggtagatta aaagctacga atgtattcag ctttttatagt 600
 gaacctt 607

<210> 815
 <211> 384
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI137856

<220>
 <221> unsure
 <222> (1) .. (384)
 <223> n = a or c or g or t

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 tcacacaggt ggtcgatggg tggccgcagt gatgggtant cttggaggat ggctaggatg 240
 tgcctccggg cttccaccac ccagctcagg tacagctcct tgcctcgcg tgaggatgac 300
 gccatcttgt gcaggtgctc ctgctccgag ggctctgagg cgtactgtgc cagttcgtag 360
 agcacattgg tgcgtggcgg gtta 384

<210> 816

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI137988

<400> 816

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 aaatctctaa ggggccccaa cacaaatgct gaggtcttaa tggattttac acattgcttt 180
 gtccctagtt cataaagggt aactgaacac agcacctgta agtgacagca gttgtaacca 240
 gaagaagaat ctggactcgg actttttatt ttatatggaa agaataataa ggtggggccaa 300
 atgagcctac tcacaaagaa agaagttacc ttggccttat ccctcacaga cagctaaggg 360
 aagcaatgtc tcttggtcga caaagtctga taataaaaaga tattaatatg tgggtgacctg 420
 tgccg 425

<210> 817

<211> 401

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI138034

<400> 817

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 aagacagttt attataaatt tggactccta cagttctggg gtggcgccct gacatttaca 180
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 atttgttttt ttttttttaa aaatatttac agaagtctgt ccagccattt ggatttttgt 360
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<210> 818

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI144585

<400> 818

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 ctagagtctg taaaattcta aatcttgctg gctgtggcac agaaccagta gcttccact 180
 ttttcccttc tccccaggct acatggggaa agagggcaca aactgacaag acttgatcac 240
 ctccaaatga caaaattgca aaatcccaaa ctcccagcac ctgaaactca ggatattggag 300
 acctccagc tcagatatat atttttaagt ttctgctttg ccacaactgt ttgtcaccaa 360
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<400> 821
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 gctccaaagt tcttggtgaa agggacgtgg 510

<210> 822
 <211> 588
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI144797

<220>
 <221> unsure
 <222> (1) .. (588)
 <223> n = a or c or g or t

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 tttgtattaa aacactaaat tgagatggat taagtcagggt ttgtaccatt taaaacaaat 180
 ataaaggtaa gagtaataat ttatcaaacg tctctaattg ttacctcccc tgtgcccaca 240
 tctctttgca cagggtatctc aaccacagac agtgcaatga aacctgtcgt tactgtacac 300
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 aaaaaaaaaat acctcgcccc cctttaacat catttgaaat tacagaataa atgctgccac 420
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 cctccctcca tctactacggc aagggtcaagt acattcacga aagccgtcct cactcccgtt 540
 acccagacgc atctgtaaga caggggcgga caccaggggc tgcacagc 588

<210> 823
 <211> 488
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI144832

<220>
 <221> unsure
 <222> (1) .. (488)
 <223> n = a or c or g or t

<400> 823
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 gtaatcacac agagtgtgga gaaacaggtc atctaagatc ttctgtagga tttcgggggaa 360
 ccgtaaaatg caccgtccca gtttccactc cttctcgtgg tccaaaatga tcttggtttc 420
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tctggtga

488

<210> 824

<211> 512

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI144936

<220>

<221> unsure

<222> (1) .. (512)

<223> n = a or c or g or t

<400> 824

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acaaagtaga tgtaaaaaac tgcttaagtg aaaaatgtaa tatcgagtt ccattttata 180
agctgaaaaa tgattttatc aacatttgca taaaatctgc actttatata ctgcatgtta 240
ttaaaaaatt ccaccactaa attatgactt ttgcaaattt aggcttacat ttatactggt 300
gctggtgtat atgtagtaga tatggaatgg atattttttt gtttaatagg caacatcctt 360
aaacaataga caacaatttg gaaaattaga gacattttga cagctcaaaa attattattc 420
acatcatagc aatacgggcc tactgttaga tttcttgcca tcttctgaca taagagtagt 480
taanatatag tgctaggaat gctggatggc tc 512
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<210> 825

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145081

<220>

<221> unsure

<222> (1) .. (563)

<223> n = a or c or g or t

<400> 825

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gggaaaactc tctataaaga aagttaagtc caggtgctat aaaaatcctt agcccttcac 180
atcacaataa aggatgtatc tcggccaatt tgttacctcc acgcacataa ttagacatac 240
agcatgcatg gtactcttag ctctatcccc agccctgcag cacaacanag gaaaagcccc 300
cagattaaaa aaaaaaaaaa aaaaaaatcc aaaactgggc ttaggctctt tgcatttaaa 360
caggttaagat gcaagctgct taaaaactat ggcatattga aaatataacc tctcctgtat 420
atgctgatat aattttaaat tttaaagggtga aaacatacat ttactaacia aacacatccc 480
tatagaaaat gtttatatag tggaataactg cctttcagac tccatttgca tcagtaacia 540
tagtgactga ctctagtcca agg 563
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<210> 826

<211> 443

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145095

<400> 826
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 taattgtaca ctcatgtgtc ttagtctgta aagttgtatc ctcagctcac ccataacctt 180
 cccagaatag aacactctgt catacattaa catagagcct tcaaaaggta tacacaaggc 240
 tcaactctgc aggccatacc agatgctgtc ccatccacta gacagtttaa gagggacaca 300
 gcaagggcca tgcagacccc atctcaaaca tcccagtact aatactctgt atttgcttct 360
 tgtgtctgct ttttctgaac atcaccacat ccagttttcc ttogcaagaa gtctcctctc 420
 actggccatg catttctgct cca 443

<210> 827

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145385

<400> 827
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 ctcttgccat ctgagactcg atggcaacga atgctgtgta taaacaactc cattgagtaa 180
 cccagtgttc cctttctgta cagagaagaa ctgaattcac actgttaaaa gccttttctg 240
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 tgggacttta cgttacttca catcctgtcc atttcagagt ggggaattcag gaaggccctc 360
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 gaagctactc atgacagtgg cagcagacaa cattctctga actgacaatc atgatggctg 480
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<210> 828

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI145556

<220>

<221> unsure

<222> (1) .. (567)

<223> n = a or c or g or t

<400> 828
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 agagagagag ttctggatga tatctttccc ctctagtcca atgtgctaag actgagacag 180
 aagcagaatt tgtttctgtc aagggcaggg agggcagggg gggcagggag ggcaaagata 240
 ggacctcact aggtaaccct ggctaacttc aaactcagag atccagcctg ccaactggcct 300
 accaggttct aggagtagag gagagcgcca ccacaccag tctgtttttt gagacaaagt 360
 ctactatgta agttcagatt ggcctttaac tcaaaaatct tectatagcc acctccaaag 420
 taccaggatt aaaggcatgg gccaccatgt tttggatgac cttgagctcc tgatcttctc 480
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<210> 829

<211> 439

<212> DNA
 <213> *Rattus norvegicus*
 <220>
 <223> Genbank Accession No. AI145569

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 aaggactcta cgactgctc tctgaagcac ataaccacac taaatgtaca aagagccatc 180
 cgctggcccc acatagccaa ctccaatcag caagacgtcg attaggggtcc atattcccag 240
 accaccaaag ctgaagagct tgccgaggcc ttcacgccac tggcccagggt agaagcgatc 300
 cgctccaaag cccccaagggt tgatgctcag agccagagcc gtcgaccact tgtagcctcc 360
 agtccagttg cagtacagca gtttagggaa agtccgggta cccaagcaat gaatgtgggc 420
 gcgcacagtg cagttggca 439

<210> 830
 <211> 480
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI145870

<400> 830
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 ctgcagcaat agctcactta acaaaatttt atctgacttt ggggtggagga actttcccaa 180
 gtaaaaatca actggagtgc tctgtacaaa gctttcctaa tgtctaactt cattaatgaa 240
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 tcttattcag ttcagtttta gagaagaaaa ctacaacttc tcaaagttta gtttaacacg 360
 gtctcctctt ggcaagcatt agatatcttt agcttgactg ttcctatttc cccctctgtc 420
 ccagctcttt tagatcacgt tagttatttt taaggatcca tcttttttga catgtctagc 480

<210> 831
 <211> 421
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI145931

<400> 831
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 gagcttggtt ttcaggcagt tgagtgcctg acatgggtgc tgggaactga acttgggtct 180
 ttggcaagag cagtttaggc tcttgaccac tgagctggct ccgcagcctc ccacactggc 240
 ctttgaagaa atactgatct aagagagcgt gggtccactc agtagctctt ggggtctcagt 300
 ccaggtctat tcccaggagg cctagtggat cctgcggtgc gtgtagtcca gaaccatgct 360
 ggccgcacca agcagggccg ggtcaaccaa gtctgaaacc actacatcca catcctgcac 420
 g 421

<210> 832
 <211> 394
 <212> DNA
 <213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI146177

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ggatatcctg aggcactcgt gttgagcctc actcacacc gcccaagggtt ggaagcttag 180
catggacctg cctcccactg gctcgtctcc tcagtgtccc acccttcccc agaccagaga 240
cttcattaga cagccaaaagt tatgaagtga gacagtggac agacatcttg gttcgggtggc 300
catctcgga tcttggtctt ttggttctct tactctcaaa ttgctttcca gagatgggaa 360
gtgcctcctt tgagggaatg tttaaaagta atca 394

<210> 833
<211> 520
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI146215

<400> 833
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tcacattcta gtaaaggaca ctttaaaaaa taaaatatac agtacaataa gtgattcaat 180
agaggtagggt tgcaactata atggtgacca aaggaagggc cagggttaatt aatgtcacag 240
agtctcaaga acgcatggag tttcccagaa gaagcctagg gctctccatg caaatatggg 300
gtctacgaag gtctggagggt ctacaactct ggacttctgg aaaactcttt aacactctta 360
tcagagcaga gtggcaaaca caagaggagg gtcttagata ccaagcagag actctcacca 420
aaaagctcct aaaactgcct gtagcaggga tgaggctgaa tgcttctaga aagcccaatt 480
cggtaatctg ggccaacaga gatgggaaaa tatacacagg 520

<210> 834
<211> 421
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI146216

<400> 834
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aatcggtctac gaaaacttga ataccttttg cataataata ctacggtctc actctctgct 180
tttgctaacg actgggtccc tctctcgctc taacctggc cacctcgtca agcctcgact 240
gccaaagtcga cgccgagaat caccaaagga aagaggtgag tgggcatgga aggagggagg 300
agagagagag agaagggaga ggagaaaagc aggtatcata tacaagcaat ttctacacat 360
atattacaca ctgggataat gaccgatcat taagatatata ataattcata taaaattttg 420
a 421

<210> 835
<211> 456
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI146237

<220>

<221> unsure
 <222> (1)..(456)
 <223> n = a or c or g or t

<400> 835
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 ggtgtaaacc accatgccag gctttaactc gaaatctcaa agcctactga gatttagaag 180
 ctttgccctaa aacatgtttt tttttttttt tttaaacttt ttttccttg gaaactacca 240
 tggnaataaaa tgattattgt atatcaacaa aattattctc tttttcagtc aaaaataact 300
 ttcacaaaat acctggctaa cccaatagaa aaatacaagt tacattctat cctgagggtta 360
 aaagaaaaaa agtttgatcg gggagggtt agtgaccaca gtgtactctg tcagcgtagt 420
 acttgctgtg gctaatttca atgaaaagga acttct 456

<210> 836
 <211> 637
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI168953

<400> 836
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 tgatgtaatg tttcatttac ttgattaatt cttttctcta aaagtaatag ttaaaaattg 180
 ccaatgggta aattatgaat acaatcgtgt acaaagccaa catagtatgt tttaccattt 240
 atctctttca agttctgcta ttttaatttc tgaatacaaa ggaaactccc agaaaaataa 300
 agccaaaaga ggcttaagtt cgacactatt atgtttccaa agtttacctt aaatctacag 360
 ttaaccagta gatgggtgga gaccagagtc attcctttta taggccagag tgactctggg 420
 ctcttatgaa cttaaccctg aaaggaggca gatgtaggga cttcagttta gtttggttg 480
 taagagggga ctctctacct agagaaactt tgaataattt caagacttag aagcaaacaa 540
 taaaaattta caatacaatt aggatataat tttttaatat aatagacatt gttaattaac 600
 tatacacata tggttagatt tcggcagtaa ccaagcg 637

<210> 837
 <211> 448
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI168967

<400> 837
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 agaaacaacc tttgaggttg acaaaattct tacaggggtg aaggaaactga ggggtattggc 120
 tttagtttgc agtgaagtca actaaggctc aggaagccaa agtgccttgt ctactacac 180
 aaccagttag atctgggaac aaaatcttcc tactgcactg aacagaaaat ggggccca 240
 ctttgggcta acacaggaag agggccgcatc agaaataacta gcagggcaat tgtctgactg 300
 gaggaatgac cttcgatca aaagtccaga tactcaattc ttgaaaatcg ggatcccatg 360
 caaaactggc aatgcattcc aggaaactag acgggtcttca gcatacatgg aaaccagagt 420
 tgtagctcct agtaaccata taacggag 448

<210> 838
 <211> 534
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI168975

<400> 838
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gggtcttaaaa tgggatacag agcacagtga cgggcaccat ggtgctgtca cagcacaagg 180
agctactggg tgctcatttc cttcctgaac attccctgag cctcagtcca cgatgggtcaa 240
cgccctccac aaacctggag cttttggact ctggctactt cctggagggtg aagtcacaca 300
ggccacgccc tgccaccccc aatcatggcc agtcaattgt cttcagtagg cctcagtact 360
gaacactcgt aactgctga cacagctgac cctaccctac ctagtacag ctggaggcat 420
tgtctccatt cttgctgtgc tgctgtgac ctgagaaaga aatggggaaa agaaacttcc 480
actttcccaa gaaagctgga aaaaagagag ggcagattgt ttctgggcag gaac 534

<210> 839
<211> 255
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI169007

<400> 839
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caacttgcca cgagcaactg gaacggactg tctgtaggaa actacagaag agcgggggtg 180
gggggtgggg agtactatgt ctaccagcgc tttccgcttc tagctggact attattatac 240
agggagagaa tgcct 255

<210> 840
<211> 474
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI169041

<400> 840
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aataatctag acagaacggc ctttcctcta ggtacatcag tcaactttgtg ttttcaaagg 120
cttgtctttg ctgtccttac ccaacacagc tctctttttg aggcacgctt gagttacaag 180
gctgatccca tcttctagt catatgacag ggatggagat cctgggttct ctacccagc 240
acctagctgt gatcattctt tctcctctt accaggcctg agggctcctc aatgtatacc 300
tgccccccaa ttctcacact ctccaggtgt tttcttagta tcagcagccc ctccacctca 360
ccataaaact ggatcccctt ttcttttagc gccctcctat ggcttcccat tgctttgagg 420
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<210> 841
<211> 522
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI169075

<400> 841
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gtcaaggcat ctgcgtgaga accgatcaga atgcacacat ggcagttgct ccaactctttc 120

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tctactcttc tagtcccagg atcctctacc caggggaatgg tgccatccgt gatgggtgag 180
tcttcccact tcaacagaca ttcataaagg cccttttccc tagtgactct aatttttattt 240
caagttgaca attatcatta gcagagcagg ccatgtctct gcctcccccc tcctaacaca 300
tgacaggtaa gaggatgaag gcagaatgta ggggctacag tgcaagcagg aggaagatat 360
atcctactgg cttcatttctg ctagagaaaa ctcttaatat ggggaccttg aagaaatatc 420
atggactoca cgaatctgct gcttcttgag gaaagagcta aagttcaa at cctctactac 480
aattcattca tttctggggc tgcttgagg tgaacaaaaa tg 522
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<210> 842

<211> 703

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169156

<400> 842

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catttttttgc ataacagtat tgcttttctc agtgtgagaa taaacaggaa agccacgttt 240
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aggcacgggtg cctcccattc gcatctctcc agtttggtcc attagagtcc aagatgcagg 360
ggttccctca ggccccaaga cacaggaact tgggaagtcc tttatgcagc gttcgatgaa 420
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cacatagagg atgttttctg agtgtttgac ttggaaagaa tggatgcttg caagattttg 660
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<210> 843

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169163

<400> 843

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ctcttggtgt agactgctca ggactgaacc ccacccttgt tgctcatagc ttggcctttg 180
ccatgctact aagccatttt tggactgttt agtgatgtta attattttta ttactcagga 240
acaatcagtt ttctccttgg tcattgtcct ggttgattta ttgtgtcaag gtgacacagg 300
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acaagtctta tatagtattt tcttggttaa tgatggatgt tgggaagacct ggatcacttg 420
gggtggtgcc aaccttgggc aggtaggtgg tgctgagttg tataagaaag cagcatgagc 480
aaccatgga gaacaagcct gtaagcagca cttcccatgg cctctgcttc agtttctgcc 540
tggagttcct gactg 556
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<210> 844

<211> 649

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169166

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 atctcaaatt ctaaaactcc ttgtttgaaa cgaacttcag gtaaggtaga taaagacaac 180
 atcgatgtgc agggcaatgc ggaatcagct tgctctcacc acgacgcctt caggataagg 240
 tagttacgat ttgcttttagt aaagtttttc ttttcctggt aacaagagca acaagaacaa 300
 caacacagta ccaagagaca ccgtaaaaca aaggacccac tgagggaagtc actttccgat 360
 gtcagagccc gccaccttcc ggccctccttg cctcgctgcg cccagtggca ggtgcagtac 420
 gggctgggct ggccctgcag ccattctcatc gccggctggg ccttgggtca cacttgctcc 480
 gggaggcccc cttccttgga ggagagcagc ccactgagcc ccgggctgag tgaaggctgc 540
 gcttgtagga gtggcttctg tgtttcttcc cacttgtttc cttctggtct tgacttttgc 600
 caggctcctt actgcctctt ttttgttcgg ggtcttgctc cctcgtgcc 649

<210> 845

<211> 598

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169171

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 tgtccccacc ccacccccca cgaagggtta gtgcgctcac tgctataaag cagactcgga 120
 cagtttcaag gattggaacc aaccttaaat ggcaaaaatg ctttctatct gaattttcat 180
 aaaaatgttt aagtaaaaaa acgaaagtta aggatcaaag gggcaacggt ggcttcagag 240
 tgaaaagatc attcacggtt cacgtcagac attcaatctt ggctcgagtg taacacagcg 300
 ggaacaggct cactatcata caaaagggtc actacagcgc gctgtgggca cctgttccaa 360
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 acggaggagc acgtatatct tctctttgat ccagtctatg ttatacggct ggtatgtctg 480
 tgtatcagct cggtaaacaa gacagctgag atctgccaga tcgtcaatga aatcaaacaa 540
 ctgactgata tcatatgcga tggaacggct gttgggattc attctcttca catgttct 598

<210> 846

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169239

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 gtcttggttt cctacttagt tacaaagggtg aacctacagt tgggtgaaca aatatttaag 180
 gcataaaata atttctctac tgggtttattc ttgactccac aaaatgcccc attcctatga 240
 attccttagc tttggaacca actgttttaa tacatggaga aaatgtttta gtaacatggt 300
 gtgcagggtga ccaaactgta aactgtaaga tctacagttt ttcttactgg ttcttcaaaa 360
 atgttttccc aagaaagtta gaatgcaa atattgcacg gataaagtca aaagatctaa 420
 aatgttttat ataagtttaa aacctttgat cattatccta gttttttata aacacaatag 480
 agaaactata ttatagaatc acacaaacaa aattttacaat caattcttta aaaacataca 540
 aataagagta cttacttttt taagaaaaag cattttttatg attaaaaatg acatttta 597

<210> 847

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169279

<400> 847

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gtgcttggtga tttcagcaac ttacaaaggg gagaggaaat actgagaaaag gccactatgt 180
aataatgaag gagtgaaggt gtacaggttc ctaaccagcc tagggccaaa aataagaaac 240
aaaagggtgtg cgcagagcaa gctagcctca gactgctgag agtaaggcat tcagggtgcca 300
gcctggcgag ttcccgagg caccacaagg tcaagtgcac atggaggctg ttggtagtga 360
gctgcgcaga cacacagggc acacgcatgc ccacacagc ataccagaa ggaaagttat 420
cagactacac ggtggtggtg attctgttcc ctaagagttt gtgctatgtt gaaccagagt 480
ctccctgctt tgggaagagg aatgactaga ccaaagacc tctacttctg taggtgtcat 540
gaggaagcat ttcattgctc tgtcccaaag tacgtgacca gagagtatgt ctggcttctg 600
atatgtgctg tttccacaa acctaggtga gcttccttcc ggatggacat tg 652
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<210> 848

<211> 634

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169284

<400> 848

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tattagtctc acacacacat atacatgtac acaggaagga aggcaggctt atttacaaga 180
aaacatgtaa aatcaaagtg ggtgtcagga aacattgaaa aacaaacaca tacatgctac 240
aagaggcacc actgagtaca gtgctaggga ggggagtgaa cagaggcaga cagacagggt 300
cagtcttcac agcatcagtg caatggatcc acaaaccatg ttacagctag ttcattgggt 360
aaggagctgt tcccaaattg gtcctatttg gccctcagag gttgagttct gcagattccg 420
actgctctaa aagcctacct actgagaggg cacatgatca cagtaagctt aaggagttgc 480
aaaagctatg cagaccaaag tcaccgatca gcagtctgct ctcagctgca gccctgcatt 540
tttctgagaa atatcaaggg gaaagtcaaa caccagtaaa cactgtctct gaagtgcaaa 600
gctggagtga ctgaaattca gccaatatt cgaa 634
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<210> 849

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169302

<400> 849

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ggctttgtgg ctttaaagac atcagcccca ggggtaatcc agatactggg cataaatagg 180
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gctatgggca tctggggagg tcccattggg catcaagtgg cgacacagag cagggtgtc 420
tgcacgtgct gagagctggg cacacagagt ggccaggcgg cagggtgtgc cgcagggtc 480
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cctcatgcgg tagaccaggt tgtgcc 567
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<210> 850

<211> 637
 <212> DNA
 <213> Rattus norvegicus

<220>
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 ccagttctgc attttcattt agcaaagaca ctatagaaaa tgaatcatca tatcctctct 180
 aaaggaagaa aacgaatcag ttcttcacaa gagtctttcc tttttttttt ggtatcttaa 240
 atgtcgatga tcacgaacac ttctggcttc tcttcattgt agacttgcag tgctgagtat 300
 gttattgctt tgacctcggt tccctgaggg tgcttagaca gtgaaaattc ttctccccac 360
 ccaatggatc gtaacttgaa atttttttgg tcaatattaa gtactttcac ttcccggggt 420
 atgaagtact catcggcact gaacctgtaa agccactcgt ccaaaaagtg aaacagcaga 480
 gactgcaagt cgtctccttg ggtttccact tccactgttt ggaggggctc cacagtcctg 540
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 tctccccatg catgtaactg gacattaact gtatgat 637

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 <212> DNA
 <213> Rattus norvegicus

<220>
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 tgccaggtgc acaaactctgg attccgtggc aggcaggcaa agtgatcgct ctggtagccc 180
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 caagggatgg ctgaacaggg aaacactgtg cacaccccac agccagcact ataggtcttt 300
 acgaaggcct tttgctgagc agggctcaga ttatgccagg gaaccaggaa gctgcaggca 360
 gtgatgtgca aatttcctgt ccttaaaccg cccgcgatga gaaactcctc gctgcgggtc 420
 tgggacttgt ggacatatcc acagaggctc tccatggctg ggggttaggc gaaccggaaa 480
 cctgtggcat ttcccacagc gtcgaatcct ttgagcatct tagtcatctt gatctcataa 540
 cgctgggata aggtggcttc gatgatttct ggggaaccca tgaatttagc ccttataacc 600
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<210> 852
 <211> 625
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI169337

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 atggcctcga aagagttcct tctcaagggt gtgggtgcatg cttttaatcc cagcacctgg 180
 gaggcagagg ctgggtgggt tctgtgagtt caaggccaac ctgggtctaca gagagccttc 240
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 ttctttggtc cagtagacct aggactgggg tgtgcaccac tcagtctacc tccatcttct 480

tattctgcaa agaagccaca aagacttgcc actccggttg gtaaaagcgc ttatagacat 540
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<210> 853

<211> 491

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169529

<400> 853

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 ggcagagttt tccttggttc gactctgttg tcattcttgg ctgtggctgc gtctgttgc 240
 gtggccacgc agggaccaca cagcctctgc agaggtggat cagtgtctgc gaccctggag 300
 atctgtttcc actgggcaga aatgacggag agtgaggctg tctttagtac tctatgtgga 360
 aaggatagtc cttatgattt tcagttgagg ggaagggtggc caagcggagg ttcttgtcga 420
 ggctgaaaaa ttctccata tctttttcag ttaattcaaa atcaaatcc tgaatattct 480
 ctctaattccg a 491

<210> 854

<211> 453

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169557

<400> 854

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 gaaaggcaca gatagccata tgcaattaca tgtagaataa cagaattttg acagtgaaaa 180
 agatgtttta atatttcata aactttagat aagattttcca cttaggcagt tttgaaggat 240
 ttgactagct gcttaaaata tgaaaacaaa gcaaaacgaa accctatatt ttaataagtg 300
 atagtaaaac aggacagcca gccaaactaag ggacaaagag aaggcggagg atggaaaaga 360
 ccaccacact cactgcaggc tcgtggctcc ctcaacccca ttcgccttca tcaggctgat 420
 gacctcattt cttccataga acctggccaa gtc 453

<210> 855

<211> 580

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169612

<400> 855

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 accaacaat cccatcaact attgtagagt ttgatgcaaa tttcagtcga gggcctcgtc 180
 ccttggtcga tgccctttcg taaactcttg taaaagtcac gcctttcatg acacattcca 240
 ccaccagctt gtcaccatct cgtctcctct ttatgggggt cgactttcca tcccacttct 300
 gcacatgtac caggacccca ccatccaggg ttatgatgct cttcactttc ctgtcatctg 360
 ggggtgatttc atcgaattcc acgcccagtt tgaaggaaat ctcggtgttt ttaaaagtac 420
 tctctgaccg gatgacgacc aagtccctt ctacgctgat gatcaagttg ggcttggcca 480

taccggccac tttcctgggtg gcgaagccaa ctcccacttt tttcatgtaa tcatcgaagt 540
tctcactgga gacgagtttc cagggtcccca caaaggcggtt 580

<210> 856

<211> 583

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169617

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gctgccggaa gttccaatca agaaggcaag gacagtggca atcaagggtc ctctctatcg 180
attctgtgtg agggacacgc accctctcca ggcctcctga agtagtgtgt cagcttagct 240
gaagagtcga atgggtgcat ctgccccgga ggagaagacc catggctgtg tgggggtggaa 300
ggccacatcc agtacacca gatctcgggt caggctgtgt cccttaagca ccttgacggg 360
caccagcaat gggttctgca gcagggtcatt gtacaccatg ccatggcaaa cgataacgct 420
gccgtcgtct gagccggatg caaagagtgg gtatcggggg tggaaggcca cagcccgcga 480
ggccttcttg tgggtgcctca gcactttgta tggttggtg gaaagatcca gggcaaacca 540
caccagtttg ctgtcatagc tgccacagat gatgttgta cct 583

<210> 857

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169619

<400> 857

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attctattac ttgtcaaact aatgactgta tagatagagt taatcttagt gaccattcat 180
cagtacaata tgttacaaag gtgcagtttg ctttaaagta gaaacagcag aaactttcca 240
gccacaaaaa acttggtatt atgcagtaag ctgggagccg gcctctcctg agctctctct 300
tacatgttgc caacatggct gcctctctat taagagctcc tggggtttct aagagtaatt 360
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aatggcccaa ttcgtcaatt aaaaagtatt cttgttttat aagcaagact gctaaccctt 480
tagaaactca cagtgcctcc aaagaaaaca taaaatatgt agtcctatat agccagaatt 540
gccaaatcag taataaattg cacctttaag actgagtaaa agaaacagaa atgtttacag 600

<210> 858

<211> 682

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169620

<400> 858

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caggcacgcc ccggaatggg caaagacctg gcaggaaggc actcttgcaac atgcgcatag 180
ttaacttcct gatagggggg ccagctggcg caggggaaggc tggcgccatc ttgactgact 240
tggccttcca cgtggggcgc agtggaagcc agcgccatct aatggtcgcg catgttattg 300


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cacatcctaa acgtctctgt tttattctca atattctgta cagtatgtac aaagaaaatg 60
gatatgtcat taaacacaat ttaaaattaa taattaaaaa tatatgactt aggggtgggg 120
atttaactca gtggtagagc acttgccctag caagcgcaag gctctgggtt cgggtccccag 180
ctccaaaaaa aaaaaaaaaa tatatatata tatatatata tatatatata tatatatata 240
tatatacatt tgacttaccg gggataccag aatatgccac atcatgaagt cacctatcac 300
agaagcttct ggcatgaata gtacgattca aattttgatt tttaaagaca acaatttttc 360
acagtcctct tcccctttgt ccatccttgc cccattctct atttttattga gttataaatg 420
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<210> 865

<211> 557

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI169947

<400> 865

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attacaagat tcgtaaggat tgacacaaga aaggactgaa ggatgtaaga catggcccat 180
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agtgcgcga cataactacc gcttaggttg cttcgaacta ggttcaacct ctgtggaacc 360
ccaagtgcct ggtttgagaa ggtggctaaa cttaatgtaa tttatagcaa aaatatacat 420
cataattgta cctgcaactt ttagagacaa aagtgattaa cctggcactg acatccctct 480
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<210> 866

<211> 502

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170007

<400> 866

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<211> 520

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170038

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aaaatggata aaatcaggcc aagggacttc agagggaatg gaacatacag gaaatgacaa 360
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ttgtctcatg atatttgtac actgctcata aggttcaaaa tcgtatcctc acacacagat 480
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<210> 871

<211> 638

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170385

<400> 871
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cacatcggtg acacaggaga tcgggtggac aaaagaagcc atccgggaca ctctagacac 180
tgtaatatct aatagcgttg tcaataaaac gagaacccaaa aaaaaaaaaa agtttcagca 240
atgtttacag tagacataaa tcttatacaa gtcaaaaagc tttttttgtt gttgttgttg 300
ttcttcagat catagagcat aaaatggaaa aatgtatatg taggtgatat ctaactactg 360
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aaaatcgctt gatgaaaaat aaaataacca gtggctttga acggttcccc ctggccatcg 540
gcgctgcaga agatgaaaat cttcccatca gaacagatgg cagaaccgag cccaccaaac 600
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<210> 872

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170394

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acaaagggtt aggagaacat tttattgttc aagaagcagg tttgatggag aggttatata 300
tcaaccccct tggctgggca gttggtaggg cagagttcaa attcagtcac tcatttctct 360
cataaattac tcaactgaaa aagaatgagt aatttactcc cattcccaga gattgagaca 420
cttgaggctc ttcagggtgg cctactgtgt gcacaggccc ttgattgtaa atattgaaga 480
gagaacacat cgtctttcat agaagatagc tcaactgaaga tgtgctgtga tgaatagata 540
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<210> 873

<211> 608

0991200-07101

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gacacgtggc	aagtgttaact	cagacaataa	cttaatccag	cagaagaaca	aaaacatcag	180
tagtactgag	tgaatatatc	tctctcatat	atatatatat	atatatatatt	gtatgtatat	240
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<220>
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<220>
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312

<212> DNA
<213> Rattus norvegicus

<220>
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<210> 877
<211> 671
<212> DNA
<213> Rattus norvegicus .

<220>
<223> Genbank Accession No. AI170679

<220>
<221> unsure
<222> (1) .. (671)
<223> n = a or c or g or t

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<210> 878
<211> 450
<212> DNA
<213> Rattus norvegicus

<220>
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 gaaagctctt cctgggtgaa aagggtgccc agaatcatct ccggaatgga agacgtaagg 360
 ccggttaact tgtgggctgc ccaatccatc cagcccttgg cgttggggtc aatgttgatg 420
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<210> 879

<211> 440

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170709

<400> 879

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 tacactgttg ctaaaacttg tatcttcaac ctttgaaaaa gccacattc tatcacagt 180
 atgtatggtt aaacacttg atcaagtcac aaccagtttt attgcaaaag gaccctgtac 240
 acatttatca attctagtac cttaatagct acccaacaag tcattaacat acagaaacat 300
 gcatcatgag aagcaagaag tatcacccat cccttctgca tattagcaac ttgtcactcc 360
 tgagccacag tgctcacatc actgaggtct gtgaacagtc actctttcca ttcacctga 420
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<210> 880

<211> 712

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170751

<400> 880

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 ttaatacaat gtatatgaaa taatctaaaa ttacaagac aggaaacata tgattatttt 180
 tttttctcct aaagttgaaa agcttggaat gtatgtccaa cagtgggta aaacattttg 240
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 tcaaatttga cacaaatact gaatgactgt agccaaagag acagggtcag aaaatgccaa 360
 catctcaagt gtgataagaa caaggcagat aatatgcaaa atagcctttt aaaaaagttt 420
 tcttttgtaa cattttcttt gaggacagag ggcagtttgc ttcaggtgac tgggaatttct 480
 tgtgtcaggg atgcagttga tgtacagaga agcatcaggg catcagaaag ccattcactc 540
 attcctacgt acggcaaagg gcacagagaa ggccaataga aagccattca ctcatctcta 600
 cgtacggcaa agggcacaga gaaggtcaat agaacacttt attgtattgt tcctttgtaa 660
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<210> 881

<211> 721

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170752

<400> 881

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 cagaatctag ttaaagagag ccacttcttg tagctttggg gttttacaca cacgggcaca 180

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gacttcaaca atcacatgaa gctaactgac actgattaca gtgaaagcct gacagtaaag 240
tgacaactca ggatgatgga atctgggaag gataagcgga tggggaagaa cttcacaggg 300
gcttctgaga ctgcgagtgt ctccactcca gtatgaatgc tggatgttcc tttctagata 360
gtaactatac agtctatgca tttttctaaa aatatatttc caaacctgga aaagggttaa 420
aaaaatggga tgaagtatat aaaaacattt ttgaaggaaa atcattacat aagatttgtgt 480
gtgtgtgtgt gtgtgtgtgt gtgtgtaacg gtttgcttgg taagatttaa ggggactttt 540
gctaaagaag tcatacaccg aggtcaggct ccagaagtgt cctctgagct agtcatctta 600
gttttccatg agagagttct gatacaacca ccaattctta acacattagg taatatgttt 660
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a 721

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<210> 882
 <211> 671
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI170763

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<400> 882
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cactacaata ccacagcatg ctgggttcaac tgctaagttt acctttcact tagcagagta 180
agattggttt gatattgtgac aaaccaaggc acggaccgtt tgggaaactt tctgcagcat 240
cacacaggaa cgaagcggtg cacctaagag ttcttcagtc aaatggccat tatccttttc 300
cagtctaatt actgtggctg ggataaggta aaatacacct cctagacttt cacatagacc 360
atgcccaca cagcaccagc ctttcatcaa cagtcctcag tataagcact gtaccctaag 420
gatttttctga ggtggatggt gacctattg ttgataacct aatatggctc tattttaaat 480
cttccctctt tctttctctc ctccctcccc tcttatactc ctcccttctt ttcttgatgg 540
ttttagggat agaactcaag gccttgacca tgctaagcaa gctgtgtcac caagtacagc 600
tctaagcttt tttccccctt gaaaaatttc ataatatgac ccagtaattt tcattttgaa 660
aatgtaaact a 671

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<210> 883
 <211> 618
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI170770

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<400> 883
agggggccaaa ggtggctaatt ttaatataat ttctcctttt ctagtacatg cacagaaagc 60
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acacaaaggc ctgctcgat gaagcagctg acaggcaagg gagctcacag gctgtgcttt 180
tgctcatcgg tctatttctc caaatacaat atcctgggtg cctatgatgg ctacgacatc 240
tgccagcatg tgctctttag acatcttgct caaacctgcc aggtgggcaa aaccgggagc 300
cttgatctta caccgataag gtcggctgct gccatcagat accaagtaca ccccaaactc 360
gcccttagga gcttcaatgg cgggtgatgt ggctcctgga ggaacttggt agccctcagt 420
atacagctta aagtgatgaa ttagtgactc catggacgtc ttcattctctg ctggtttagg 480
tggggacact ttggcgatc caaccttgat ctcccccggc ggcattctgt tcagacactg 540
ttcgatgatt cgaagggact ggcgcactctc ttccacacga cacagatacc tatcgtagca 600
gtccccctcga gaaccaat 618

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<210> 884
 <211> 585
 <212> DNA
 <213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170773

<220>
<221> unsure
<222> (1)..(585)
<223> n = a or c or g or t

<400> 884
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agagtgattt cagaaaataa aaaaggaccc tagaggcagg cggtagtgcc cctccccccg 180
caaagacaca ccaaatttca agactttata tatatatctc tgtgccctgg ggggaggaga 240
gagacacttg gcagcatcct ggaggggggc cccaggcagc cccaagccat cctgcctcat 300
cagccacttt attagctcaa gacacatcgc actacaggca cccactgccca ctgccgccac 360
agccgcccgc gccccctgc agtccaggcg gctggctggc tgggccatcc acgtgtccat 420
ggctccaagt cccctgcccc acccgccatc agttgtgatc agactcctcg tcctcagcct 480
cacgaagcca attgaagaat gctgtgacag atttaagggc cacacccttg cctgtctgtt 540
cagcagggtc cttgctgctc tcccagctgt anaaggcgctc ttcct 585

<210> 885
<211> 629
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170795

<400> 885
aggactttt tattttcatt ccgcatgtgt cttacaaatt taaaaatttc ataaaatgaa 60
agatcacaga gaagtcattc aggtcaattt aagtatggc acatttcttg gattatgtca 120
ttgctatcag agacacattg aattcaaaat atttttagat caatttgaca aacaaaacaa 180
gcaacgccaa aaaccttatg gtgagatttt aaaacagAAC attctttaat ttcctcccaa 240
gttactaagc agtctgatga cttcatttta ggaccacaac gtgatcactg cctctagtct 300
gcaggggaga tggatttctt cattgaaaca agaaaaacag ctcttttcca tgtgtgaaaa 360
actgttttct gtttgtttgt tttgtccatt ttgtttactt actttttaag attctttcta 420
ctggaaaata actatgctta cttgctgatg tgtccgttca ggtctgagaa agaagaaaat 480
ctacaaatgg tccaaagatg aaaactttac tcaagtctta gatctgcttg agtttcttct 540
aacttgcaaa tatcaaatg aaaaatttag ttaaagcacc tgattcatgt ggagaaagta 600
atgaactgta ttttgatgct aacatatta 629

<210> 886
<211> 662
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI170820

<400> 886
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atgatagtct cgacagaaca cgcagctcat tagcacagac tcagatttgc tcgtcgttac 180
tatctttgcc accaacttcc tgctaacagt caggttttga catggtcact gctctattga 240
gaagttcaat tttgtgataa tttacttttt tcaaagaaat agaatccaaa ttcttgtttc 300
atattttgtt ttataagcag atttttgcaa atttttttaa atgtaaaact gtgacagtct 360
ccagagaaac tgagtgttac aacttggcca gagagagctg ctgtacagtg acaagaagcc 420

atgaacctac tctaaagtac aaacacgcac agcctcagcc agcctgccag tgcctccaag 480
 acactccttg ggagggcagt gctgggacgc ttccgtctgc tggctactct acccagagca 540
 agggcactct cctgcctcgg aacgctggtg ccagtctctg ccgcagacac acacctggaa 600
 tggactctgt gagcgagtag cctatcgacc aagctacttc atctccactt gataatttaa 660
 ta 662

<210> 887

<211> 641

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170821

<400> 887

agttatatat aaagtattta ttttatgcac atatttacta caaattttaca gaaaatgaaa 60
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 gcagttcaga gaacacaatc ttagacacag gacagtcaag atgagtccac gtttagttaa 180
 gggcagcttt gttaaagtgt tttgttctat tattcaaatt taatgttgga tggaatttaa 240
 aatgttgctc atgaaataat ttaacctttt caaaatcttc taataaacag gtaaaaggca 300
 cctctagtac tttaagcatt tacagcaatc ccaacagttc catttcaatt ccattgctcc 360
 tgtagcaaac gtggctggtg tgcatacaca gtgccaccag cactctccag cagggagagc 420
 tgcaggctcg ctctgggttg tgggtggtg ctgtgttact ggtgatggac tgggcccacc 480
 actagtacag cactagtgtg acacgtctac cacagcataa aacccatcca gtcacctaca 540
 ataaggactg tcaaattccc acacaatata tcattgttta acttgtacat tcagaagact 600
 ttgggggtggt ttttaatttt tttaaaaaaa gtaatttagt a 641

<210> 888

<211> 426

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI170967

<400> 888

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 gtacctcagc agctccttaa gcaccttaga ggcattgaacc cctttcaaca tacgcttctt 180
 caggggacag acacacccaa agttcataat tagtgtgaat ggcatcctaa cggctcgcat 240
 gccaacaatg gtgaatcagg cagacattac aaaactcagt ttccaaccgc gtcaggcgctc 300
 cacaatgagg cgaaagcagt gaaggcgggt ggcactgttt ccagcagcc acgctgaatc 360
 tcagtttctg gacaatactg gtaggtaata gtctgaagat gctctaaaag caccgatcct 420
 caccct 426

<210> 889

<211> 602

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171088

<400> 889

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 cagggcagcg caggcagcat tctggggcct gtaacacttg gttggtgggc aagagtcac 180
 tgggagtcgt gtccaggact ggtggtccca gacagcttgg aagctccttg gtccaatcca 240

actgaggtct cgggtggtgt tacagtggca ctggattcag cttatgtcat tcagggcctt 300
 tcgggtgaac tctggcagca cgaaggccgc gcggtgcatg tctgagttat agtacttcag 360
 ctgcatctgc tctacctggg cctgtgtcag ctgctgcacg ggctcccga agttggtgct 420
 cgggtttttg ctacacagca tgaagccgat ctggccactg ggataggtgg gaatggtaca 480
 gtaggcatag ctcaccacag ggaagagaga cttgcagaaa tgccctcatct ccttgatgag 540
 gtccaggtgc agccactggc actcgccctg gcaacagagg atgccatctt ctttgaaggc 600
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<210> 890

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171094

<400> 890

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 aaggacagca aatgaatgga accataaatt atcatcccgg gtaactaat ccagactcta 180
 aaaggatatgc atggtatgaa ctctgtttta gaggatttta gccacaatgt acaatggtac 240
 aatccacaga cccaaacagg cttaaattaca aggaggacac aaggcacgat gcttgaaatc 300
 ccactcacag ggggaagtaa gtcttcacag gcagattgag ggaggcaact gtgtttctta 360
 ccagtttgta tccttttatg tcttacgcgt tgactattcc acacaaagg gttaccacat 420
 tggtcacatt cacaggggtc ttctccagta tgtgttcttc aatgtatttg gagactatgg 480
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<210> 891

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171095

<400> 891

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 tgctgtgtcc tcattgctgg ccaaattcca gcatgctagg ccgacttcca agcttctctc 180
 tgtgtcctgc acagctgagc ttgaagcccc tgaggcctga catagggtaa acatcgaggc 240
 ccccatctct cctcaccatt agatttggtta gttccaaggg ccagtgtggc gccacagaaa 300
 atccactgtc agttcctggt ctggtgagcc ttggggaggc gtttctgtag aagatcccaa 360
 gccttttcca cctggcgctg tgtgacatgt gattcccaca aggtgcacag aaccacgtgg 420
 ctctgtctta ccagctgctg cccactcatc tggttctgca accggctttg agcggtgcc 480
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<210> 892

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171229

<400> 892

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 tctgaaccac tctatatgct cgaccttctg tctaacgctc agatatgggt ttttcgagag 180

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gccacaggtc accagctcca tgaacaggcg aattgggtcct tgcttgggga aatcctccag 240
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attgttaact gggaactccc agagagaagg tgctgcttct gggtcagggtg cttcgctgtc 360
aaacgcctta acatcaaaaa tgcgaaagtct tttcccttg aacaaacatt tctccttct 420
gaaatcagct ggcttctcct ggctaagcga actgtccact tcttcgtcaa actgaatctg 480
gtgctgtggg cttgaactaa ctctcatcga aggggatttg gcaattttca tattcgatat 540
tatttgagtg aagctaacc tgcgcttctg 570
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<210> 893

<211> 575

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171231

<400> 893

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catttacact atatacatat aaggagtcca cgtgacttcc attgaaatca catgacaagt 180
taccagatag ccgcgttgta cctactgcat tttgaaaatt tagacacctc atttaaagct 240
tttagtttga tatctgaact tgcgttgatg accaaccagt ctattgcaca tacaattaaa 300
acaagttatt ttcaatttta gtattatata caatgtcaat attgaatcct atgtacaagt 360
aatccgggga cctatatata atgtgaatcc atcaaaatgc agttaagaaa atttaggggg 420
aatatatatg cttgaaccca agacccaatt ccaacatgtt atacagctta ttacaaaata 480
catatggaca atgtatgtac agtttaccat aaatattgaa aaatagggtta cctttaatgg 540
atcaatgctg ctctataaat aacagtacag ttatt 575
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<210> 894

<211> 588

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171262

<400> 894

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tttgaaaaac acctcattgg gtgttgactt actaataaaa agtaagtcac cactgtttga 120
acataatata gaatacacaa taaattatat ttacatgcac tgaccagatt atcacacaca 180
aggtaaaaaa atacagtatt ttatgtacat tcttaaagat ttacattttc acatagggtt 240
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ttatggctgt atcgccacac agaactgctt taaactagca ctacaacact ggaggggtca 360
cttcatattc acatcttggc acccatgtac aacacatcat gaaatgtgaa ttataaaaca 420
attagaaagt aatcatgcag ctatcttaat acaagaaagt gagatgagct gatcagcact 480
tatcacctcc atttctgttc gtatctgtgc cacttcctgc tgtgtatgcc tattccactt 540
cctgttccgc ttccacacag gtgcatgcaa aactagcaga ttatgaac 588
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<210> 895

<211> 547

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI171263

<400> 895

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aggtggcctg tacacaccta caaccacagc gtggtctcgt tcataaggct ctagtgtcaa 180
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atcggcaaag atgacatcca ccattgcaat aagcatgcgg tatttgtgtg ggtgccgagc 420
attttcaatt acaggaataa tggttgctct cttcttgcc aagttgatga ggtcacggcc 480
agagcggtgg gagaactcaa ctgcgtaaac cagaccatcc gggccaacia tgtcagacac 540
gtgggaa 547

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<210> 896
 <211> 425
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI171305

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<400> 896
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aaaaaattaa catggtattc acagagcaga attcttttagg acaatcaaaa tcccagagta 120
cttagaataa attaacatca aattgggttt atattcagat agcctgattc tctcctctga 180
aatgaaatgg agaccattgt aacctagggt gaacgaacac acttgttctt ctgtatagac 240
atgaattctt tacataaact caacaataa ttgaatcaag ttaggaatcc tgagaaagtc 300
accacacctac aggccacgag acatattgga aatgggtcac tgtgtgctct tccccggtct 360
cagtgtttgt aacaagcatt tttcgggaca cttaagcaat ggtacagtcc tttgcctgac 420
actgg 425

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<210> 897
 <211> 397
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI171319

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<400> 897
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caacacacia cccaaatgag gctgcttccc gtctctagac tcggggacag tggttgggtt 120
tagcgatggg aatgtgtgct gaaggagggt acccaggagg ctcctacccc agtcctcagg 180
atggcaccag ctgtcccgtt gcctttctat ttaccacaga ggaaggaaag gcagtctttt 240
gagatgctca gtagaagtcg agcatggatg gcccttgagg gtcccacgaa gggctcattt 300
ctcgggtcatg gctgcagatg ttgcgagtgt cgccgcagcg acaaggatgg caccggatag 360
cttaggggagc caagcaccgc agcggtgcc accgcga 397

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<210> 898
 <211> 531
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. AI171354

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<400> 898
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atttttctact gctatataaa tttattggga atgttattca catttattgt cacctaaaac 120
atactgtataa caatgggtta ttccctaaga caaatgcata cgtgattctc agcaatcatt 180
ggtttgatta ttagtaggtt acaagggtcac atctctgtgg aatgtcagtg accgctgtag 240

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tgtgacaggc ttcagcgcat cattgcacac actgcttcag aacagtcccc accgggtctg 300
gacccaggac gcaaagcacc cctctgtctt gaaacggcag catgagggttc aggtcaagggt 360
cttccaaatc ccggacacgt cagtcggttt ccaaacttct gagttatggc tctgcagcag 420
gttttagcata ttaaattccca agtggttctaa ctccctctat ttcaagtaac aatgaactct 480
tgaggctcaa actcttttagg ttttaactga aagtaaccaa acttttagaaa g 531
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<210> 899

<211> 632

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171370

<400> 899

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tttttttttt ctttctaaaa tttttattct taaccactgg attcttttgc tttcgtttct 60
ttgggacagt gtttttatca catggcgag gctgtccttg aacatgacag ttccaatgca 120
acttccagag tggagtaaca tctgtgtgct actatgtctg gctctgattg gatccttcag 180
ctatctttga gtatcaggaa atttttctgc aaagagcttg gaaacaagca attttcaaac 240
aaagccagca gaggggggtt caaaacagca tgcactgtct taaaatgtgc tcacagggac 300
agaataacag atacgattcc atgtgaagcc tctaacagta tatgttcac ttacacgtgt 360
ttggaaagaa tacagttaca tgaatctgta agaaaaatca caagtggaaa tgaaaatcat 420
ttccaagcta tattaggcag aatacttcca cattaatata tattgatatt atcaaacagt 480
agcagctcat tgtatgattt atatttcaat ccacaatac ttttggtcat ttgacctgtg 540
gtatacttgc ctggggagct tttaaaatca aaatatattta attagatctt aatggaagaa 600
aaaccattta catgatttaa aggaaatcac ct 632
```

<210> 900

<211> 496

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171506

<400> 900

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atgctatatt aatttattac tagtgtgggt cttccattag cttcctacat agcagtgagg 60
acttttctcag cagcaggtac agtagctttt aaacagaatt cgtaaagaga ataatacacag 120
tgaaaacata aactgccaca gtaagtgaag caaacctgtc taggggtgaag ttcatcctaa 180
cttactactaa tctactccca tgagtctgtg ggctaaacaa aaatcacctt attctaagcg 240
tactgtgaat catcacaaaa gattctgact cttaaaaatc atgaaaactt caagatctta 300
ttaataaaagt taaaaattct agctgttgtg ttactgattg acttttgtct gtattttctg 360
gacttcttca ggccacgaat aacaatcagg taggatctgg tcataattag tgctgtacat 420
ctggggaggag acaaattctt ctttgttttg ggggttcaaga taaacagtgg ccatcttttc 480
tttgatgca tcttgc 496
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<210> 901

<211> 495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171583

<220>

<221> unsure

<222> (1)..(495)

<223> n = a or c or g or t

<400> 901
gaggggttgga tggattgtaa ttgatgggtg actgattatg gaattaaatc ggggtatagct 60
tccagctggg ctcttctctg tggcactggg accactaggc tgatggcaag ggggtgggcag 120
gaggtgctga gaagcctcag ttcagttcct gaatgccagc tgcccaggag gggcgggcg 180
agggctcagg cagctgcagc agaggggtga gggacactgg agtccacagt gtcagcgccg 240
ccggcagaac ggttcttggtc aatcacttct cgaagtcctt tggcaaagtg gaggtcagcc 300
ccaacagtga cgaagcctgc atggttgggtc accacctcat gcacgaagt gataccctca 360
gggaggggga tctgcacccc acgccagata cgctcattca acanaggcat cactccgatt 420
tgcagcagcg tcttcagtgg ggcctgcagt gggatcagtg ccagagactc cagcgccagac 480
tgattggagt aaatt 495

<210> 902

<211> 631

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171587

<400> 902
atatatacaa caaatttttta attatgtact gaaaataaat tacaggaaat aacttttaaaa 60
tgcaacagag gacaagtcac aataaaacat tcccattgaa ttctcttggg ggtgagattg 120
cagtgtctcaa ggaagataaa tatcacaaat atatcaaaaac ttcaaactgt ctatgcattc 180
acacactgac atgagccaca gacattcctt tcacaggact gtacttatta gcctaccaca 240
gaaccagatt ttgccataaa ctacaaaact tttaatacaa aattgtattt atatatttat 300
aattcatata catgccctac ctgtaatttt tagaaaataa aagctacaca ctgtacagac 360
actcttaact cacagctgta ggcaacattt ttggatggaa tttctcccc aataaaaatta 420
atggcgtatt ttatgtacat gaaaggctaa actgcaaaga cagctcagtt tcccagataa 480
tgcattctccg ttcagggcag gtttacaaat ttaaaaaggc aagacaatgt acacctcaga 540
attaccttct cagctacgag ttgtcatgtg atttctgtga agtttctgat acatgcattt 600
atgtaatact ggcattgaag gcagtaaagc a 631

<210> 903

<211> 515

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171611

<400> 903
tttttttttt tgagagggtg tgttttattac gccgagcctt tgcactacgc atccacctac 60
agtccgtaaa caaatacagt acatttggaa gtaggaggct agcccatcag aagtggcaga 120
gaaacaattc tgttcagaca gtgcaacctc accacagcgc cctccttagg ccagctgtga 180
aaaacaccag aaggcaggct taggccccag ggggtgatct ccagagattc atcagaaact 240
gccgtggaga ggagcaaggc aagagcttac ttagttacat tcacagggtga agcttctaata 300
ccaagtgtcc ctagcgccac aagaaacagc aatcagcagg tggttacaga attaggtaac 360
tcagagtaaa gcctctggcc gtccgagcaa atgaggaatt tgctgtttt catcatgggt 420
ggactatgat aagaacatca gctgacttca ggggggcatc agtcaggaag ggtcgtttca 480
tcctggccac atgtccacgg gtccacagaa agcaa 515

<210> 904

<211> 708

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171630

<220>

<221> unsure

<222> (1) .. (708)

<223> n = a or c or g or t

<400> 904

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gaatctgaaa aataggcttt actttaacca gtggtattgt ctgacatcct atggcatacc 60
agatcacaaac caagttcaca aatacacata cacagcagtc ttctcattcc cttgtcttcc 120
aatggagaaa ctgggtggcg gcagcatcgc accatggatg ccaggagctc ttctgccagc 180
tctagcttca agtccgggcc ctggggcaca gtcctaacac agcatggcca catgtgcaaa 240
ggcatcctca atacaataac cacgcctggc gttcaaacc agacgttgct actaaccatt 300
gtgaggggat gacgtggagc tggactgcat actgaggcgg tgaggcctgg ccagtcggcc 360
tccttctggg ctccagatga tgcagggtcc taccctgccc cacagaactg catgtccctg 420
cactgataga gaatggagac accttgacct aaatacgaga cctgtttcgt ccaacactgg 480
aattggcttt acactttctt acatccaaca gaccaatcac attctcgtgc ttcattgtgt 540
tcagcagccg cagctccctg taggtccttt tggcgtgaat gatggactga aacgggtctcg 600
acagcttctt cactgccaca cgatgtcccg tctntgtatc aaaagcagca cacaccgagc 660
cgtaggctcc cgagcccacc ggggacaggt tctggtatcg ctcgggca 708

```

<210> 905

<211> 617

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171646

<400> 905

```

gttaaaattt ttatatataa aagtggcatg aacttttcat gtagaacaaa aatttaggga 60
aggcaaaact ggataaaacc attaaaactg aaatacagtg cttcaagtga atcccatcac 120
ctggtgatgc tataagcagt ctctaagcca acaccagata ctagaaccac caatcttaaa 180
aaaaaaacaa aacaaaaaaa caaagaaagc agcagtctag ggccctccaa gcacttcatg 240
caagaataac tgcttgtaaa gcaacgggac ctgctccttc tctaagctcc ccttcttgaa 300
gcaggataac cccttttgca gggtaagtaa tcacagcact gaaacagagt gcctctcggc 360
atctagtgtg atcccaaaga atggcatgaa ggcaaaccac gcattgcctg cgactgcaat 420
gctgcccttg gaggtgact aaaatggagt taaaagtgtt aaagtgtgca ccacattgcc 480
agcaatggga tgtgtcataa tatcagatgt cagaagagtt aagctaatat ttctctttaa 540
agcacatctg aaatagaaaa atctttaata tacaccattt gtaaacaaaa ttgcacttga 600
ttttgaatcc tcgtgcc

```

<210> 906

<211> 684

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171652

<400> 906

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ggccataaca aacaaacaac atgaggttta atcaagcaca ggagaaaaaa cgatacatte 60
aacagatgtg gtatacagaa gatgaggctg ctgctggctt gttgttgaaa caccatgtga 120
gtatactctc ctatgaaagg taagtaggaa aatgacttgg aatattctga tctgtcttca 180
tacaggaata ttgatggaga gcaaaagagc ataatacaaag gcagcagtca actctgaatg 240
gacctgctgt cctctggctg taggccagca agtagcactg ccatcttcta gcttaagaac 300
aaagctcagc agtctacggg aaataggcac ttacacaaaa gtttttaaaa caggagtgtt 360
tgacacttga aggatttcat tccaaactct caattatata attacaaaaa aatccatggt 420

```


gaggggtccta ataacttaaa actttattag gaacagtagc aacatcctga ggtcacagga 60
gaagatgtag agaagccaca gagccttggc aggggttaagg tggtagcggg cctgatattc 120
caccctttcc tgccccaggc agagaggcca gaaacaatca aaaccctaca ggcaacctac 180
agaggagtag gctgagaccc agaactggcc cccaacccaa tagtccagat ggacactggg 240
aaaggatggc ttcaaccccc aagacatggc ctctttttctg gaaacatgcy cagtccacaca 300
gctgggcccct tcagtggccat ccctgtgcta aggcatagct gaggcctgtg ttcgaggtgg 360
ggctgagggc agcctttctca gggttggagc tctttccact tgcgcagtct ctaatccatg 420
gcctggaatg tggccttgct cttgacaaaa ca 452

<210> 910

<211> 471

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171726

<400> 910

acttgagctc catagtatat tttttttctc attaaagggtt caaaacccaaa agcgggtttct 60
ctttgcagca aatatacatt aaaatagagt ctctgtacag ccaagggctc tgggcccctgg 120
cttgccccat ggccctgcgc ctccctggcc aaacccaaaa ataaatatag tgttattgct 180
ctgcaggcgc tagaggcagt gctgtccccc atcccttgag gtgggagctg atagggggcc 240
ctggccacc caggggtcca ggggctggag cctgcttgga gttattgctt caaggggggg 300
cactaatgcc caatgcaatg aggagaggag cgaaggggca gggcctttgc tttccaagcc 360
cccctctgct ctggagagga ggtcggagta agcagcagca aaagcatcac ccactgggag 420
actgtggtct ccatccccctt ccctccctga gatcagtttt tgccctctac a 471

<210> 911

<211> 431

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171727

<400> 911

gaagtgaacc agcaagcctt taatggggat cacaggacgt cattcagatc ccaccggctt 60
tcgccccaca agggagaaga gtccttcatt attggatgtg gtagaagagt aactttgaga 120
aatcacctcg aactgtctga tgggtgtacc agcctcttcc acggcatctc gaacagcctc 180
ccgggtccagg gaaaggctgg aaaacttctg ttccccaatc atgtagtaga tactcttaag 240
agcgtccacc atcaccagga agccccctgg cttgagcagg ctgcccagggt tcctgagggc 300
agtgcgatag gccgggaggt cagggcaggc agcatccagg cacagtgtgc tgagcaggca 360
gtcggcagga ggcagagaga ccccaccagc aggctggctc tggctcacat cgcacttcag 420
cacctgcttg a 431

<210> 912

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171745

<400> 912

gaggtcagaa acaagcttta ttacacagc gataataaag atatcaactc gaattattcaa 60
taatttagct ttgggttggc tacaagttca tgccgcacca atcctgtttt acagtagttt 120
aagactacac ttggtatttt cccttgggtc tgttattctt gaaacttgta aagattcaaa 180
atactgtaga gcttggtgaa cagcaacata aatgagacaa tgtactcaga ggtagtctc 240

tcacaaaaaa tacgttatat ccaagttctg ttagggcgcc agccagtaag gcccataaaag 300
 gaatgaagac ataggagaga ttgatggttag taaagtgttc cagtttagca cacagtgcga 360
 ggacagaaggc taacttcagt aacattgcga tgaggtacca ggctttcttt ttaatatgt 420
 gtgatccatg tcgggggtcg aagccagact tacaccgtcc agccattttc acaatcagca 480
 tgacgagaag gatagtgtca aatatccaga ctggaataaa tatgaggaac cagttccagg 540
 gtgccttctc atccagtttc aacaccaaca tga 573

<210> 913

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171772

<400> 913

gtgggtggcgc atgacttttaa taccacttag gaagcagagg cagatgatct gggagttcaa 60
 agccagctgg tttacacagt gagttcctgg acagccaagg ctacacaggt tgtcccaaaa 120
 aattaaaaaa ataaaaggta caacttgctca tctcaagtct taggatttta gcttctgtca 180
 aaatgtcaat acatgaacaa actaccccag caggaacaca gagcgtgcgg tgagccagcc 240
 atacaaaatg aataaatgac tattgtcaga cagatacgat tataaaacaa ttctacaaaa 300
 taccttcttc aaatttcatt ttaagatgag gaaaaataaa atctgtcatt ttatttaaca 360
 ttctatttga agttacagtt ttatcaatac aatctgcttc taatgaaatc ttagtataat 420
 cctaaaagca tgcattttata tacagtaatt tctacattcc taaataaatt acatacatga 480
 tatatatata acaataaaga atagcaatgtt gagaattcag gacatttatt tttctgcatg 540
 ggggttaact actgtggagc acacacggca attgcttact aagtagtgag aactaaata 600
 ggcatactct ttttaggcga caaaatattt tcagtcctta acatctcact cacctagcac 660
 cagatgc 667

<210> 914

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171795

<400> 914

aatgtaactg aaaaccctaa tttaaatttg attttatattt aatgatattg ccaaaagtta 60
 acaaattaca attaaaacgg aatttggtat ggtaattcca cagaacttaa aaacatgcaa 120
 cactgcatgg taaaaacagc ttcattcatt tacaaaaaat attcctttga aactcataac 180
 agtgcctgga aatttttgac ataagctttt tgcaaagaat attttaaaaa atgtaaagat 240
 tcgattaacc aattagtgcg gtattaggaa agataataaa cattattagt aaagagggtta 300
 cagtgtattt taccagggtt agacagggtt caatgtagtc tcattaaata aatgttcagt 360
 taagaaaata gttttgaaaa aaatcttata ttgaagccat gttttaattt tgttgaatca 420
 gcttatataa atcaagtcaa gttttattcag ttaaagaaaa taggactatg ctttcttata 480
 ctcataaata gtacgtatat atagcctatt tacaagtaaa gaaaagttct ttgt 534

<210> 915

<211> 653

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171948

<400> 915

caggctattt attgctcacc tctcacacaa acacacctcc agctactttc tttcacagct 60

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tgacagtgtt tacatgtaca aaaacccggc agaagcatcg agtgacttca gtatagacgt 120
ggagggtgac tcagccaggc ttctgtcttc tgcagcaata atgaagggcc tcctgcaactg 180
agcaggactc gatctcactt cgtagtgcac ttccgtcaca agaagggctc cttgtgtaaa 240
gcaagccaac ttgtatttgt aactagtga taaaacacat gtctgtcac cctttcttct 300
agcgaatttc aagtaaaaac aaggttgaag gagggacttt tgtcttggat ggatgcagg 360
ctgttttgagt tgctatactt aactaagtgc ctacagggtac tacgggtcac aacttagttt 420
gctttttgtcg tgttcattga tttggccgtg ttcgtggatt ttggaggagc atatgggata 480
gtattccacc cacaggataa ggctactgaa tgtgctatct gcaaaagagc tcacgtaata 540
ggaaccaacc caacagggtc accagaaaga aaggtgacga aattttctctg gacaaaatgc 600
caatcaaggc agagctatgc tgggagaata gtttacgaaa acacacatgg gtt 653

```

<210> 916

<211> 589

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI171990

<400> 916

```

accattctcc atgtttattg tgattccaat gccacgcagg acacacacca ccactggcta 60
ggatgagaga cagcagacag tgtttatagg tgcataata taacttatcc ctatgtacac 120
acacagagta gacattacac atgaagaatc agggagggtac actgctggaa ttaggctgcg 180
gtcagttttc tctgccactg acattgagaa ggcggagatg aagctctgag aagatgcagc 240
ctcagaaccg ttacggcatg cgagtcactt cggagtcctc ggctccacact cctctgtgtt 300
tggaactctc aggccctggc acctggcctg aactcttcag ggctcccagt cactggcctg 360
tctctgaaaa gagtggggag gttggaggcc aggcctctct ccctaccgtg cctccctttt 420
tcacagtcag cactccaaac agtgggttct gcctcccctg gggcaccag accctcagct 480
ccattgtccc cacaggagct cgctgggaca cccagaccgg agtcattgct gaagcaaagc 540
tgaaggatct gaccccgatc atgcccgtca tcttcatcaa ggccattcc 589

```

<210> 917

<211> 647

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172041

<400> 917

```

atctttaatt ttccattttt attttaagcg atcacctaca ttttagtgat taaatttaag 60
agatatgtac ccattaatca gatttattat caattcaatt tgaaggcaat tttcaacctt 120
taataagtta tattcatatc tgagattggt taagctttct catggagaaa aagaaaccag 180
gcagcagcta gagctgcaac ccaagttttc ttctgtcat ccttaggcac ttgtactgtg 240
tggaaccgagt gactggggcc aggtcttctt tctatgaaac agagtcttac tgtgcagccc 300
tcgctggcct agaactcact gtgtagaccg gctgctgcct cctaagatct gagactgaag 360
gtgtggactg cggtggcctg gctgcccagc tgcccagcct ctaagttaag ggttgtggtc 420
tttcaccac tgctcgatcc actttgagat ttgggtgata ttgtcctcta gctgctctgg 480
ctcgttactg ggcagctgat gcacaatttc ttctttgtaa gatgccatgg cttcttcata 540
gagaacttga aaaatctcac actgaatatt atcttgtagt ttcttctcgt gataaccctt 600
tgtttcaagt cgtttgatca atataccatt gtctgtcctt aacacga 647

```

<210> 918

<211> 647

<212> DNA

<213> Rattus norvegicus

<220>

Figure 1 displays a sequence of 12 grayscale images showing the progression of a handwritten digit '0' from left to right. Each image is labeled with a number from 1 to 12. The images show the digit being formed by a series of horizontal strokes, with the final image (12) showing a complete, clear '0'.

gggggggaaa	aggtttat	tttctcaga	agaaacagac	tggggaacat	ttacaaccca	60
cattaacttg	cagttggtcc	taaccctttc	gggaacaggt	gttaaaatgt	taggtgctct	120
acggaatgaa	ggtgttcacc	ccagacagaa	tgtacatgga	cgatgcttga	agactgcatg	180
ttttttccct	gagagacgtg	taagacaaac	agaatttgct	gagagccatc	tttccaaaca	240
ggaagcataa	caagccaaca	tgtaaaggaa	ggagaagcca	aggttaattc	aataagacag	300
gtgagacacc	tagaaagacc	aatacaaaaa	ttccaaacaa	agcttggcag	tcatttagtag	360
aaaagaaata	catat	ttattgacac	caggcttaaa	cttgtgttaa	acaagtaaag	420
cctgtgaata	gcaccgtggt	aaagattagt	ctgctttccc	aaagcatttt	acaatttagt	480
aagtcaacag	gggatcaaat	gtcttacatc	tacctgtgat	ccttaaatat	agaaacagat	540
tggataatta	accctgcata	gttataactc	ggatttgctt	tactacaacc	agtccacaca	600
cacaactqqc	tctqcatata	cactagaact	gatcatgaca	aagtttt		647

<211> 660

<213> Rat

<223> Genbank Accession No. AI172057

aagtggaact	ttctctttat	gacagatcag	cataagcacc	ctgcgaggagta	tttctttataa	60
aacagtataa	cagtgatgca	gaatgatctc	acaaagccat	cttcggacct	gacatccggg	120
ctatagccta	agagccttta	gcaagtgacc	gatcaatcac	aacattacta	tgatgctcat	180
tatttaccag	gtaaacctga	aataaatcaa	caaaataaaa	caaggacaaa	atccaagatc	240
tgccaaacga	cgactgtgtt	tagtaatggg	aaaaacactg	aatctgagcc	ggtccatctg	300
aattcttgtc	tttgtccttg	gatggatgat	ctgagaggac	agccttgggt	aagtctttca	360
gtttaaattg	acagagctgc	ttttatgggt	gtgtacagtc	tttttctaac	aacgcaaact	420
tggcaaccaa	ttcgacctgc	atataccata	taactcctgt	gcctgtgtgc	atctcagtc	480
tcaaattaac	aaacactcgt	tggtctctta	ccagacacaa	actcgagaga	catggtttca	540
tgacagatta	caaaagtcacg	gaagtcgaa	gaaatatgag	ttgacctcag	acatccttct	600
tggtgaaaca	atgcaaggac	ttacgggag	aaacaagcga	gttcatacat	taattacacc	660

$\langle 211 \rangle$ 630

<213> Rat.

<223> Genbank Accession No. AI172075

ttatttcagaa	gataataaaa	tagcatgcac	ttttttttaa	accaccaagc	gctgataaaa	60
atatatcact	gcagccgtga	ttccacatca	aaccttatca	gtaagaatag	atttattctt	120
cacatcttgt	gctggacctg	gcataggaca	cctccctcca	ccagggccat	aaaggccaag	180
gccaggagtg	agcaagtgcc	ctggtgaaga	ggggtaagtg	ccaggctccc	tcctagccct	240
gcagaacaga	tcagggcaag	accttgccct	tcacagccac	tgggacacaa	cactgaccaa	300
gggttgctcc	tggatggcag	agtggacagg	agtaaaactg	caagacagca	ggtcctcctg	360
tctttttcaa	ggtccctgaa	atccccaagg	gagatttaac	agtccctaca	gcagggcccc	420
agcctttgct	ttgtttgctg	gagtggggat	tctgcaaagg	acagctcact	ctgaacacaa	480
agtagccata	ggacactttc	ctatatcag	tgtggcaagg	gacaactgga	gggtgctact	540
gactcctgtt	aaggcacttg	taacagaaca	taggtgcaca	ggcagcagaa	ggttaatcat	600
cacgggagat	caqtgqcaqt	ggtgctggct				630

<210> 921
<211> 585
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI172107

<400> 921
ggggataaag gtcttttattc gacaagatta tcttactcag taacaaaaca gcaggaggta 60
acaattcccc caaagatctg gaacagtatc tgcccctggc aggggcagta cagcctgcta 120
aaaaaagtca gctgcagcca ggggtctctag tgtcagccat ttttcaaaga ttgtagtttg 180
ggttctttcg aagaatgaca aagccttcca gaattggggg gacagggaga aactcctcag 240
tggccagctc cgcccgttcc ccattgggcca acagcactgg agttgtgtga gtctggaacc 300
ccgtgatcgt tttgggcttc ccagcctggc ccaccacatc cactgcctga cccacgcgga 360
cagaaactgg caatggctgc aactcctcat caaatgtaac cagcatccga ggctgcatgg 420
cggccaccag cccatacagt acatagttag atttccctag aatgatgttt cgcacatcca 480
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<210> 922
<211> 696
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI172189

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acagattatc aaatataata gagaatgcaa ttagtgctt tttgtcaca tatcaaaaat 180
aagcaatttt ctcaaagtta tcaaaagtgc cccactcaaa atctttttct taatcaagta 240
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cttttggtca actagtcggc agacttaacg ttgtactgct tcactccagt agtctacctc 600
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cgtttttgca ggaaaacagc tttcatttcc aataca 696

<210> 923
<211> 607
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI172274

<400> 923
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gaatccgggt ccggacacta agtcagataa acctggctgg atttattctg tgagaggaaa 180
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atggaaaagt gcagtgggta tcatggctcag caccttggtt ctagggtacca tgccaatcac 360
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0907800-0701

<211> 668

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI172281

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tgtgtgtggc	ttgtcctttg	ggatggcctg	ggttatttat	ttctcagtaa	gaaacaccag	120
tggagcaaac	aactgcaatt	aagaaaaaaaa	gtcttgatat	acaagggaac	ctatgtgttt	180
tggtttaaga	cacatgcaag	tattaaacaa	tattctaaat	acaatatgag	aggaacagtt	240
aaagaccctg	aaatcatgat	ctgtctctca	gaaataggat	gtttaacagt	tctgtgttca	300
caaatggcat	ggattcttta	tttctaaaga	atgttataga	aagaattata	gcaccatcat	360
taaaagtaat	aatttttagcc	ctgcctatct	ccagtcttgg	aatatcaaca	gaagcatagt	420
acctttcaac	acctaaaaag	aataaacaaa	aacaggaaat	ccatcccaac	ttgtagagat	480
gaggtagctc	atgctaaaaa	ctgttgggtc	atatttttct	atgaatgttc	taattttatt	540
tgagtgatca	tcaaaactct	gggcttctcg	atcttttctt	tgtgatagct	tcaggaaatg	600
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tgggcaac						668

 $\langle 211 \rangle$ 634

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172285

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gttaattccg	gcaagagtct	tgccaatctg	tttgaaagtc	acccctgacc	tcatttcagt	180
agacgtgcac	catgccatag	aggaatgtcc	aaaagaggac	gtaggtgaag	aggcctccaa	240
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ctttgagaat	taggagcagg	gagagcagga	cggaggcaag	caggtagaag	atgaagccgt	360
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gcggagctac	gcggaactgg	aatgtatcgg	cacgcagtcc	ctcgtgttcc	gtcagacagg	600
aaaaagcqga	gagtcacagc	ccgcccctcg	tgcc			634

<211> 730

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172302

gggttttaat taaataaact ttatttttag aatgacttta gattcacaga aaagttagcag 60

Figure 6

Figure 6 displays 18 histograms showing the distribution of the number of nodes per cluster (n_{cl}) for different values of α . The x-axis represents the number of nodes per cluster (n_{cl}), ranging from 0 to 10. The y-axis represents the frequency or probability density, ranging from 0 to 1.0. The distributions are labeled with their corresponding α values: 0.0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, and 1.7. As α increases, the distribution shifts towards higher values of n_{cl} , indicating larger clusters.

<211> 624

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI172328

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aacaaaatta	ttcttttgag	ccgggggtctc	ctgtagcctg	agttgggtgca	gaacttctga	180
ctttattttcc	aaagtgctag	gcttacaggc	aggaatcgcc	atgccttatt	taggagaaaa	240
ccattataaa	atttcaaaga	acacttgagg	aacaaggtag	acaacaatgc	ttattatgta	300
attttgtatc	actgtaacga	aaacatcttg	ttcagtggat	ttaaaaagac	ctgctttaag	360
tgtattcact	caatgcaaaa	aaaaatttaa	taaaattttac	agtattataa	tttgaatagg	420
tgccaaatgt	cctgttctct	ttctccaatc	aggaagagaa	aattcttttc	caaatcactt	480
gaagcttgga	caaccccccc	ccccccaac	attctgtagc	atcccaggca	gacttcagcc	540
cttcagagag	gacatcccag	ctctcatgat	ctcgtaacc	aggagaatgt	tggtggcgat	600
cacagtacag	gaqtqaaqca	gctg				624

<210> 928

<211> 567

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI172405

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aacagagtcc	tgtgcagaaa	ttacacacta	tccatctaga	cagatttttg	ttacactttg	120
cctattgatg	gagtagttcc	atttataaag	ttttatacat	cagaaagcct	tgaatttgac	180
caggctgtcc	attaatcatc	tctgaaaaag	tggcatttca	ttttagctct	attttacagc	240
attaaaaagc	ttatgcatca	ggtcgcttcc	cgaacattg	ttctctgcac	aatggcgctg	300
ggcagacagc	tcttcatcca	cccagggtcag	agtcacgtct	gagagtttct	gctacatacc	360
cgtagacagc	cacctaccg	actgtccacc	ctgacagaca	gccaccttc	tcggtcagtt	420
cacactgcc	gttcacacca	gcagttgtcc	tttgtagatg	gcattagagt	atcagggtcag	480
tgacagtggg	agcagggtgct	gccatgagat	ccaggtaact	aaaggccctt	attttttttt	540
tttaaaaaaa	tqccaaatgt	gagataa				567

<210> 929

<211> 651

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172417

<400> 929

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ttataaatca tgcttgctcc agttctacaa ggacccccacc acagtctttg ggatggagga 180
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gaagaggggac cgctcactc acctggggccc ctagaacatc cctgtaaaat gacgaggcct 480
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tggatgcttg atgctgggac ggtgatgttg aaaaacttct ccctgctgca actggagtct 600
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<210> 930

<211> 534

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172471

<400> 930

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gaggtacact gaggggaagg aagcacaaaa ggaacccgct gcagactcag ggcaaaggga 180
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cttgcgggcg gcagcagaaa gcccatcatc tcggcgcttt cccttaaccg agtcgctctg 420
cttcttcattg ttcttctggc gggcgagctc tcgctgggta ccgcggtgca tggcgacggc 480
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<210> 931

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI172491

<400> 931

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tgaggggaaat tgctcacatg ctttaaaaaa catctccatc atatatatat atatgtaaaa 180
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ccacagtctg cagcacacc ttctccagag tctgtgcaaa cctgatgagg tcctgggttc 480
catccagctt cctcgatgc tccaaacccc gtgtccaggc aaagatgctg gcaatagggt 540
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<210> 932

<211> 649
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI175033

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 atgtttcaat aaatataatc caaaatttgt aaactaagta accagataga tgagtcattt 180
 tttctagtaa aaccatataa aatattttatt tcatgtgagg tagaggacag ttttgtgtgt 240
 cgtgtaatgc aaccaaccac agcaatttta atcataaaac tatatgcact ggcaaaatta 300
 tcaatcgagt tatgctcaat gtacctaattg tgtttccgta gttgcagaag ggaccattca 360
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 tactacggga agtccttcca gcagaaaagc taatggtgac tacatgtatc acaaactcac 480
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 tttaatgtgc tgtgctttct ttattttcaa gtgaggtatc ttatattgaa gaaaaaatct 600
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<210> 933
 <211> 437
 <212> DNA
 <213> Rattus norvegicus

<220>
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 atgacaacca gtgggca 437

<210> 934
 <211> 450
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI175338

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 gggcgtctcc aactgctgtc atagctggct ggtcaetctg geetgtgagt cccagggtgc 360
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 caggcttca gttctgcccc attacatgga 450

<210> 935
 <211> 512

<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175423

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<210> 936

<211> 665

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175475

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caaatcaga tgtagcacia tataatagaa actggctgaa aacagtacac gctaacagac 660
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<210> 937

<211> 644

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175486

<400> 937

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gcctgagaga tgccagactc gaactcgtcc ggcttctcgc cattgggctt cacaatcttg 600
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gcgctcgagc tgaacatggc ttcgtcctta cggagcctcg tgcc

644

<210> 938

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175508

<400> 938

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tggcaaggag ccaaattcctg gtcaggaaaa aacaaatgat gtaaaaatat gtgaatattt 360
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ccttcaccag acgccgcgga agtgacacag ccgtgggtta acttggtgaa ggaggctagg 480
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<210> 939

<211> 620

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175513

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ggagttttat gagctgcaca 620

<210> 940

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175566

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accggaggct gaggcagtca ggcgggtcaga tggacagtcc gaaggcactg acgatgcagt 360

acatgggtctt gttctcccat cggactgtgc agctccccgtc cgtggagctg tcccagaagc 420
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<210> 941

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175590

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 atggtacatc tcagcatcgc acaaggccac cagtcacccg ccttcacagg aatcgaaaaa 360
 gttagtgtga aataagtcca cataagaatt taatatctaa aaggtgaaat gctccttgta 420
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 aaaagctggt aaagagtcta gggagctaaa accgtacccc tgaggtcaag cttacagata 540
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<210> 942

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175635

<400> 942

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 aaaagaatga cttatggctt aaaatagatt tttttttaac ctgacaagaa aaatgcagca 180
 gacataaaa ctgagaggag aaaatgagg acatgtagcc aggtgttctc agtgctttta 240
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 cctaaaactg tattaattaa tcggtgttga agtccaaaac caaatgacct ttcaacagta 360
 ttaccaagta ggtaagtcca cgctagaagc taattacaat gtgaattctg accaaactaa 420
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<210> 943

<211> 464

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175675

<400> 943

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 cggtggtttc agtgatagtc cagatgggaa gtcttcacat aagtgaggcc cacacggccc 180
 caggaacgac taggtgttct gacacccagt gcacacagca aggaaatgca tcaattttat 240
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cccttatccc tcctcatgcc cacagtcagc ccaacactgc ctccgttcct tgggccagca 360
caggcaggtg ccacctttgc tgcaatgggc acctggagta gctcagacgc ttgaccactc 420
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<210> 944

<211> 506

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175790

<400> 944

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aatttaaat cagttcatat ttacagatta aacatgaaat atctatgggc gccaaagcata 180
ttgcacatca cagagagaga gagaaacatt tgtgcatctc agtaagtttg cccagagtggt 240
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aaacgcagct tgtgggatgc tacttaacac taaaacaaaa tctcctgaaa aatattattt 360
gtttccctct cagagagaga gaagcagtg aacagtttca cagggtactg atatctgttg 420
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aggccacac ccattattgg ctccaa 506

<210> 945

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175812

<400> 945

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gcctgcaagt gtgtggggcc acataaagaa ggaacttatt tatgacatta aatgcacaag 180
aaaaatatgg gatagttaac agttcgtttg gctgaggaaa aatgtcattt cttgcatcct 240
gctgcttgct agtggaattg gaccaaaggc ggtagttaag gaaggaataa atactaaaga 300
atgttgctaaa caaatggcca gcacagagtt ttcattttgtt ccttggaagg cccaagctga 360
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gaaaatcaag cttgaaactt ctgatttgcc aacgaagaga aagaacatga cgttttcagg 480
gagaaccaac ctcaacaagt cgaatcgtgg ctgtagggga gagtgagggt ttgcagctag 540
agactttaa gaacagtgtg tgattaacca tgc 573

<210> 946

<211> 382

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI175833

<400> 946

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cacgtttgtc ctggttgggt ccagggaggg cctgcccagg gatggtggca ccaagaacca 180
gggcagaggg atcagcagca cccccaggc ctcttttggg tgggtcacca ggatggggat 240
ggcagacaag gcaaggacgg ggagaccaca tgctcatgca gacaggaggt taagagttag 300
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382

<210> 947

<211> 523

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI175871

<400> 947

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tggctccatt aataccagga ggtccaacaa acgcttcact gtgagattcg tctcgcgggc 180
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ttgaatcctg ctttgtgata ggacaatctg ttttcaactc acaagaatct gtgtaggagc 420
atgaacatcc tgtatgttgg aaccgcaa atcgacatcgta catgtctcact gatggacagt 480
tgctctggga catattccat gattttattg atactttcaa aaa 523
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<210> 948

<211> 621

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI175997

<400> 948

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actagaacat atacatacag acatacatag agaaagttat gattaaaaat ctaatacacc 180
ttaattttta atgtattgca gataaaactg taaagaaaca agaaagaaca ttatagagaa 240
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tcacaattga ggaaatatta cagatattta ttactgaaga ttatttaata ctgccaaggg 480
gtacaagaat acatacatag aggtataaat atacacatgc atatatactg tggatgtgaa 540
gggtcatgtg tgggtgctca aatgtgtggg cacatgaaca tttgtgtttg catgcatctt 600
gagctcaag gatggatagc c 621
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<210> 949

<211> 574

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176002

<400> 949

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ccacttccac cagggccagg tccaccttct cttggaggaa gacatggaaa gccatgagtg 420
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tgaggaagcg gaagtaagag ggcattggaaa tgtggctgtc atccttgaat tctccagct 480
gctgatagaa gtgccagaag tacttggttaa agagttcggg gctgatgggc tccccgttga 540
ttcgaatccg ctcacgcacc tgcaccaggt gggg 574

<210> 950

<211> 549

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176031

<400> 950

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gccaaaaatg gggatccccg tttcccttca ccccatgttt cctggatcct ttcctttctc 240
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agggcgtgcc tccaaggctc actatctccc agaggaggac cccaaatgac cagacgtcac 480
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<210> 951

<211> 450

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176061

<400> 951

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<210> 952

<211> 382

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176130

<400> 952

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caggagcaaa tcagagtggg ccttgggcca aggttacatt cacagctcaa ggtaagtgca 180
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gaggaccag agccatggct accctctctt cagtgcaccc tggtagcccc agggagccct 300
tgtcccttcc agggagagga actttgttcc aggagccagt gctccactgc agaccaggag 360
tcttttctcc tgcctcgtg cc 382

<210> 953
 <211> 518
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176229

<400> 953
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 cagaagttca gttaatttag gtcataccac agtgctgact tttgtactgg cacccaacca 240
 cacaggtcag ttgctcttgc tgggtggcaca catttgagtt ctcaaaatct agaattctgt 300
 gactccgtga accattccaa ccatcaatca atcaatggga gctgccacag aaactactgg 360
 ccaagaacaa caggcaagcc aatgtctggt ttcttcatct tgtaaacac agcttgctat 420
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<210> 954
 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176247

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 tgcaccaggg gcagctcagg ctctgcctcg agcttctgca ctacctgcac cagcttttcc 420
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 tggcccacaa 550

<210> 955
 <211> 559
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI176266

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 aaaaaggaat taaaaaaaaa aacagaagaa aggaagaaaa ccacaccaca acacaaggaa 300
 gaattaagtc ctgaatgact ggcttcatca tgcccaccct ctccacccta aaatggcaca 360
 aaagaaattg ctaactacac cctaaagact acttttgggt taaaacaggt aactgatggg 420
 ctaggatggg aacagggcac gatgggaaca gggcgtgacc atccgataaa aaaaaaaaaa 480
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559

<210> 956

<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176276

<400> 956

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cgtccaaatg tcagcgggac aggagaggtc ctgcagggtc acagttgatc tatcagaaac 420
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<210> 957

<211> 572

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176284

<400> 957

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cacaatgggt cgattagaat taacacataa catatacaaa atgaacaaag tttaggttta 480
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<210> 958

<211> 525

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176294

<400> 958

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cctctggggg catctcactc ttgggtttat tgaggagact catggtgaag gtttcgctag 480
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525

<210> 959

<211> 672

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176298

<400> 959

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<210> 960

<211> 566

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176319

<400> 960

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gcattctttg ggtgacagc tacatggagt ggggtgtggc catcatagtt ttcagcttct 540
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<210> 961

<211> 646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176363

<400> 961

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ccaaaccagc aaaaaggctt aatgtttttc ctgatgaaag ccagtttact atatccaata 180
ctgattctgc catttgctg tagaaatact gagttactgt ctggagtttc caatgtttac 240
ctataactga ttataatggg tagagcgtag agttttctat ttatttccag gtgaactctt 300

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cacatttcct ggcttctgaa aatgttgctt ccacaaatct tctacaacta tgtaccctcg 360
 taatccccag tcatataact tctccccagt gatctgggca atagtgatgg cttgttgtgg 420
 gtaatagaca gaggcaccta accccatgaa gaaaggagga tacaccagct tctttatttt 480
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<210> 962

<211> 639

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176365

<400> 962

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 gtttttagttc tctaataattg tttggtataa agcaaatactg acttggcttt gacgaagaca 180
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 aactaggaaa acaggttgga cgccatatct cagagaaaga atagcagcct agcttgcatt 600
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<210> 963

<211> 540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176423

<400> 963

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 tgggaaaaaa cgcaaaaatt accatccgaa gaaagaagaa agttcagatt cctgtaagtc 300
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 atccaagaag tggccgaggt gccctagcta acagaagggg tgagaagagc tgggcaaggg 420
 atagaagcgc aagcagggac cggagcctgt cccctcgtc agacaggcga tcagtggcct 480
 ccagtcagcc cgccaaaccc accaaagtca cattggtgaa gtctcggaaa aatgaagaat 540

<210> 964

<211> 370

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176456

<400> 964

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ccggtcaggg ttgtacaaaa aaaggctagg ttcctacgtt gttttattta caccattgtg 120
aggacgcccc cacttcaggc gcagcagctg cacttgctcg aagcctcttt gcagatgcag 180
ccctggggagc acttcgcaca gcccacgggg cagcaggaac agcagctttt cttgcaggag 240
gtgcatttgc attgttttga tttgcaggag ccagcgcagg agcaggatcc atctgtggca 300
caggagcagt tgggggtccat ggcgaatgga ggcggcagtt ggagatcaac gagagatcgc 360
tcctcgtgcc                                     370

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<210> 965

<211> 675

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176465

<400> 965

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ctgaggagag ctgcactggc cccttccctc cagtcgcacc caccagcta accccgggtca 120
cttcacacgc ctgtgggaac agacaaggga catacatcac agtggagagg tggcagggtg 180
gtgggggggaa gcttgcagct gcacattgct gcagcttggt gtggccagat aggctcaggg 240
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aatcagtgcc cctgaagagt aaggccaggg ccagggcagc acctgcttcc acacacttgc 360
ttagaattgt gcccatcctg gctggtcctc agctcttctg gcctctgcct gaaagcctct 420
tgtcagttgc tctccaaggg agcaggccac agccggcaac cctaggcact tagtacgtgt 480
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ccattaacct gaggctaagc ctgcatacta ggactgactc tggggagacc agggccaccc 600
tttttcttga ggctgtgcc tgccctggca gcctgagaaa ttctaccctt ggggcttctg 660
ggagggggcag ggcac                                     675

```

<210> 966

<211> 590

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176472

<400> 966

```

caaagaaacc accgagatgt ttatttatac aaatgaacag ggagtgaagg taggtcacgc 60
aaaggcagag aacttttaat aacactgtat gaaatccccg aacaatgggt gtatgaaatg 120
ttgcagcccc ggggccacag aactgttctc attgctttcc ctaaaataac actacaagaa 180
tgtgtcctaa gaaaatgggt gctcctgtgt gcagccccag gaaagcagtt taaatgaacc 240
gaggactggg atactcatca ggactaaaca cactcagata aaatcatatg gaaagtcttt 300
agagcacacc taaataaaga ggaaaaatata atataaaaaat aaaatccaaa atgaatgcaa 360
taagatgggt aacattatgg gcatttttaa aatctacata atttctccag cattttcaaa 420
caaaaggaaa agacaggcta ctgtttctag aacttgcttg ctttttcata aattctactc 480
tcttctatga caagagtgtg gacataaatt ttaaattgaa aaaagaaaaa aaggaaaaaa 540
gcagccccta agctgtgtag tctattcaga tttgagctgt tcatgaagac 590

```

<210> 967

<211> 630

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176473

<400> 967

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gtagaagaaa tatttaataa agaaatacag ttcaaatact taaaaataat tatgtaaata 60
ccaggtagac atatgaacaa agatgacttc tgagttaaata aaattaaaca gagaactata 120
ccaataaata agaaagtcac tggctgaaaa cagtcaagat tttatttttc aatattatct 180
catttggaac tcctagaata attttctcca aatgaccact ctctgtgacc cagaaagctc 240
tggccagggc tcctagactt tgctgcattg gtccctgagac ttctagactg cattagtgtc 300
tctggctggg ttgaaaccaa atttactgt taccagaaa gcagctccta atgcattcta 360
attctgcagt caagttactt aacttatagg cagggctggg gtgagagggg cacttaaaat 420
aataaggtca ctctaagaat gttcttccct ccattctcgg ttgacacatg aatctacaga 480
gtaaatataa ccttcccctg ggtgcaaggc tcaacccgaa gcttctgggt ggccctacagg 540
attcagagcc aaggacactg cctaaaaagc taggctacag atgtagctcc aggaacctca 600
gccaatgagg ctttgccaac ctgtagtaga 630

```

<210> 968

<211> 416

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176479

<400> 968

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aggagggatg cagctgcaga tgggtggagca cgtcaggatc agaaaccaga atcctctatc 60
aagtctggag acgaggagca ttaagagcaa tgatgacgac agtaacaata gtgataatga 120
ccatgaggat gctgaggacc agggagctga tgttcaggca taggcaatga agcccaggca 180
gcagaagttc atgaagagcg tattgaacag ggaccagacc acatgggtcag gcacagagac 240
ctctctgggc atgttgatca cggtagttct gacagaagcc gatccgtggg gtgccccag 300
ttcagacacc tcatattctt ccttgattct ttcgtagttt ggggggtgtc cccagtggtc 360
agcgttcacg aaggcttgag aagtgtggtt catggtaccg agcaaaagca gcagcg 416

```

<210> 969

<211> 715

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI176483

<220>

<221> unsure

<222> (1) .. (715)

<223> n = a or c or g or t

<400> 969

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catacataag ttacatggaa tcttcggggt gtaggagtac aaatacgatg gtacacactg 120
tgagcctggc agtgaagcaa atgaaaccag acttaaaaca aaaaaaaatc ggatgtccta 180
gtcaggcatg gctgaggcag agggtcagga gttcaaggcc atcttcagct acatagtaag 240
gtcaaggccc atgtcatcta cctgaaacac catctcaaaa aaatttttgt gtgtgtgtgt 300
atcttctttt acctgtagga caagggcaga gggggcacca tgtggggtgg cttcattcca 360
ctgctcagat tcccccttc aacctctggg agaaaagggc ctggtattcc cactatgtgg 420
aaatcttgat atgggaaaca ccaagaacct actggaatat gtccttataa atatatttat 480
atcagagaaa acaaggcact ttggtaacat gatagctttc tctcctatgt gtaaatcatt 540
ctaggcagaa aataaaaatt ggttagttcc tcagggtcaat taactgaata aagttaatac 600
aggaacagaa ttgtcctcag ccttcgctga ggccccacta aagtgaacga ggcangaggc 660
acagaagcac ttctctgtgc aacacctggg cccaggctcg atgggcacca gccaa 715

```

<210> 970

<211> 645

<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176484

<400> 970

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ccagaaagcc agggggccgc ctatcccgac accgtgcgtg agccacggct gcagtggtcta 120
cggcactcca ctgccatcac tggagtcagt gcacctctct gaaacaaagc cagcgtgaaa 180
acccaggagg acgcgaggcc tactttgatt taaggtaaag gacaagtttt taatacagca 240
aaacagaaca caaaaagtaa acaaatcctt agaaattact agatgtatgt gtgtgtttat 300
ataattagga tcatcatcaa cattttaagc cattaaaaat caggttgcca ccttaccttt 360
tcttttggtg ctggggatat tcttggttaag gaaaaaata aaagatttgc ccagactctt 420
gtttgtaacc acctcaccga gctttctttt cactgtgcct caccctccac catccactcg 480
acaccagag tccaacctca ctccctcggc aggagcagcg ccagcactca ctgtggagcg 540
aggagagcag ctattctttc tagttctaata tctgtcgtgg actccgtagt gtgtgtaata 600
ctgaaagggt taggtttact gcaaagcccc atggcttctg ttttg 645
```

<210> 971

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176492

<400> 971

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aacaaactat tttattcttc agagtctaaa accttctgtg agcagcttcc ctattgtgga 60
gagagatcca gcccctcagg cctcaaactc gaactcgaag tactgagggt cgaagtagtg 120
gatgcggaca tagccgtctt cgccaccgct gctgtagctc ttgccatcgg gatggaaggc 180
aacactgttg atagggtccaa agtggccctt gactcttcca aactcttccct caaaagccaa 240
atggaagaac ctggcctcaa acttgccaat cctggtggag gttgtgggtca catccatggc 300
ttcctgacca ctttcagca ccacatggtc atagttggga gagagagcag ccgagttgac 360
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tgtgtgttcc ttggatgcgg tgacaaacat ggtcatgtct ctagacaact ggatgtcatt 480
gatctgccgg gagtgttctt taacgttcac caatacctct ccagacttgg cgctgtactg 540
gttgagctct ccgctctcgt ggctgcgat gatgcactcc cccaggggac cccaaacagc 600
actggtgatc cttggaatca ttacagggga tcttcatgta agggctcgtt gctgt 655
```

<210> 972

<211> 498

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176540

<400> 972

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attacaacag gcttttaggt agtggtggtc aatgttgatc accggtttgc taactacact 120
atcacgacct ttgaagtgcc ggttctcaca ctggtgtttc cagtgcggac aggaggcccc 180
tttgaacatg tgacacggtc catccacgcc aaggtggtca ccctcctttg ccgtcctacc 240
tactgcttta aaaatacatt caaataaaaag ggtacgttac ttggagtgcac tgcacacgta 300
cacggcagcc aggagagctg agaacatgat gaaccagctc cgtctggaga ataaatagtt 360
tgaaatagtg ggactgaagt ttgctgcttg gggaccttct cgagcatcct tgggtggacat 420
aaggtgaccc tcgctcgatt caaggacaca tcttttgctg ggggaggggt tgttcgtgtg 480
ataatttcta gtacacag 498
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gaagcagagg agaaaatgtc agtgagcgag aggcttgtag aaggacagtc agctaggggt 420
accttttgcta tagaaaagag aactgttagc tcttcactgc aagtttcaga ttttactcaa 480
ttattaagcc tccatgctct gtaatatata aacaaacaca aacaaaaatt acgtgatttc 540
tataccacag gaccaaagag ggcttttcaga cactgcaggg acctcgtgcc 590

<210> 976

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176596

<400> 976

ggttttaatg aatgttttaa tggtatatag aacagaacat catgaataca atggaaacaa 60
acttgtagca attcaataaa aaaaatttca acataaagtg ggggagataa taatttgata 120
cttatagtat ttatttttaa aaatattccc agcttgaggt tgaaacattt aattttgcat 180
tccaaactct agaatcatga ttttcatgtg agcttaatgc agaatcacag caggaaaaaa 240
aaacatttaa ttaatttctt ttatttgtca ttaaatcaat aaaatctctg actgctacag 300
gtctccttta ataatatata tcgaacttct attggaacca tattgcta atgtgaacgt tgctgagtc 360
actcaaaacg caaacaacaa aaatacggta taaaatctaa atgtgaacgt tgctgagtc 420
taacatgtac attaaactaa gggttttaatg tatttttacc tttcaatttt ttgaaaagac 480
accaaaaaag ataaaaataa atatttttct cttttgactg tttctgactt gaatgatggc 540
tccaaggata cacacaggaa gcagctttgc caagtcagtc gctgcaaagg gcaatgaaca 600
actgctacaa acaacaacaa catggtcttc cttctcctct gttagggaaa ccgca 655

<210> 977

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176598

<400> 977

cctgctctcc aaatgcagac aggcctttgc ctatcatgtg gtattattta tatcacaaaa 60
cactgtcata tgaaaatcag cacatagctc tgaagcacac agaccggaag gaaggagtat 120
ctttctactc acacagaccc caggtgggaa gacctaggct gtcccttact ttctaccctt 180
ggaagttgaa tacgaacaca tgggtcaaaga tgaagcagaa atatggaagc tacatgactt 240
ccttttagaca catatacacc cagagacccc agcaaggccc cgcccagaaa gtcagtgtag 300
tgtttctcaa agggagaaga gaggtgacat cggaaataaaa atgcaaagct gaagaaaaga 360
ccagatgatc aaaccattat gtctgcttca tggagcaatc aggaatcctc agaggatgag 420
gatctacagc ccagtgtatg acatgacacc agcacctgtc agtagaagcc atgacctccc 480
tacagtcattg tctacacagg cacctcgtgc c 511

<210> 978

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176616

<400> 978

ttttttttga ctaactccag agttctttat ttaattggaa catccgacgg caaccacatt 60
cacacacaca actgtttaca acagggagca cctctcagtg actgcggaat atgcttgcct 120
ctcctgggtc cctagccaga gtagcaaatc tgaacttcta ttcaggtcag gactgctatg 180
gcctgtgtgt ccctgcccag gacactcatg ctcagcctca agattggcca cttctgcctt 240

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agatcctagg gaaagggtgaa catgagggag tcctggtagc actacaggag tctcccttct 300
ttctgtagtg tcttccccca cccccaccct ggcccccatc cagagctcta ggggtccatga 360
aattgattcc ctcacaaaat agtgctaggg acctgcaggg gctggtcate aggggtacca 420
tacaagccat ccatttcattg gacagtgggg aaggcatatc tgggggttat cctgggctat 480
ctccacctca tctgatagcc aagaaggaag caaacttaag gatggcagcc caccacccat 540
tcacaggtcc ctggtaagtg ttggtcacca aggtctccac acactctggg cccggcgagc 600
tgtgggtcagg atgcctaagg atgtggggcac caaatctggc ccctcggcag gcacccggtt 660
tagttca
667

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<210> 979

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176642

<220>

<221> unsure

<222> (1) .. (591)

<223> n = a or c or g or t

<400> 979

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tgcataaact gctcacacta gaaatacaaa catcgatgta gatgaacaaa gtgatgttca 180
gagccaactc tgctttgaaa ataaatcaca acctgaaaca ctgtgagctt tctcctgaag 240
aaccatagtt aatatattgc ttaattttac ccttgtataa tcttttcata tacacatatt 300
tcagatgcaa cttcatgagg aactgtacaa ataaaaccca caaatgacaa aggaagagag 360
acaggtaaat gtttgaagag atgggtcctc atcactgctc aataacatat ggggtggcgg 420
tgacgtactt attcaaaaat tgtacacaat tcactataca aatataatac attggacagc 480
tatgtaggaa tatacaagac ttaaaaaagg atctaaggca ttatgctagg ttttagcatt 540
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```

<210> 980

<211> 605

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176648

<400> 980

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gagggttaag tattgtccac tttattttct tttcatctga aattcaaaat taatgtgcag 60
ccacattaat gtacccaaaag gtttactaga aaaataaaga attttaaatt tttacaatat 120
ttactacttc aagaatctct tagaacaat gttatttggg gttgaaatgc aaaatctgac 180
ttacaaattc tcattcagtc cctgtaagac aaagcacgcg tggtaaaatg gtagatcctc 240
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cctttgggtg tgcccgcaga gtgtgagaca gtcagtctcc ttggacactg gcctagtgtg 360
cactgccata ctaagggcaa acaatgtgct ctgtttactg ctccaacact tataccagct 420
acacgagaga cagagaaata cccatgtgca cgtagagcaa acactgaacg ccgtagggcc 480
ctaaagtctc actacttcaa gagggcactg cagggaaaag acaaggtgac aggtaaaaaa 540
aatgagagct gtgcctgtgg gctgcacact gtccagtgtc ggaccagaca tgtttggggg 600
aaaaa
605

```

<210> 981

<211> 604

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176658

<400> 981

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tcaaattgac agaaagggag ggctggtgac ggctactggg gatgggtagc aagctgaagg 120
cttctacttg gctccagact gttccgactc tgggcctcca atttgggcac gggcctcgaa 180
agtgaccgga atggtgatct ccgctgattg tgtgactgct ttgggcagcg gagccttcac 240
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gagcgtgtat ttccgggtga agcaccgaga gatgtagcca tgttcactct gcctttcttc 360
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accgctactg agttgccggt tgagcgcccg gctgaaggcg ggcgcggcca gggctactgc 540
tgcgggggccc tcggcggtcg cggcgggcaa agggcgcacac tagccggggc aaccagcgga 600
gctg 604
```

<210> 982

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176675

<400> 982

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cactggagcc tagaacactt tattagaaac gaaatatatc acaggcaaat aaaaatagtt 60
cttagctcca ttgatacaac ataaggggtt ttacattcgg cctagatata gggagaggca 120
gattccctcg cctacagacc tctggcttgc aagcatctcc caccacaaga ttactctgta 180
tagtacatag cccttggtta gtagagggat ccaaataatc gttttcaggc ttacaaagtc 240
cgatacatc actctctctt tccttcacaa gtctaatagc aaaaactact ttttccatgc 300
cccaaagcca ttatcagtag aagaaaactc aggcaaaaca gagatggcag ttaaggaatg 360
gacagagtat tattggcaca tgcccagcta gtgacaaaca aatgcagtgc accatgactt 420
gaaaataagt cacattacaa ggagaatgaa aacaactgta ccaactaagc tagggagtg 480
gaagtggaaa ggggattgat tgagagttac tggttttact ggtacaactt aaaagcagtg 540
gagggcaagc acttaaatec tcgtgccc 567
```

<210> 983

<211> 559

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI176701

<400> 983

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aagcagggtc gataaggagc tgagtggaca gtctcgggct cagtgcggag acagcagcac 180
ctatgcgagc ctttgcactg acccgcccct gctcagagga gctggctgtc actgagtggc 240
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ccctctcttt ggagtacaag ttcaggacat caaggtccac gcgtggacca ctatgggtggg 360
aggtgactgc taagagccac acactcatca tgcccagcaa gtccctcaggc tacaaacact 420
ggtttcctag tcagcccagg ggaaagaggt cttcactgtg gaagagagga tttataagta 480
atctcaagaa agctgtgacc tgctagtggc cttggctttg tgccctctgtc tggcctcttt 540
ccaaggtctt ggataacat 559
```

<210> 984
<211> 479
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176739

<400> 984
tttttttttt tttcagggtt ttgctttttt tatatttata aacaaaaacca acctcccccc 60
caagtaactc cccaaacaaa caaaaaacca gattaaataa aatttacagt gaaccagca 120
aacatctgta tgtgcaatta aatactgtgt ctgttactgt ggtggcaca acctcaaaca 180
aacaatatac aagtgttctg gggttggatc aggggtcggg ggagtcccaa gttttaactc 240
tgtgggggtt ggggagacaa ggtgggggaa ttgaacgaat ggggaaatca atttattttt 300
cttaattctg tccatataaa tatattcatg aagacaaaa gagggaggg cagttgggct 360
ggtgatgaag tgggagaagg ggagggcata tccctcttaa ctctactcag ccaaaaattt 420
gaaacaaatt aatttcatgg tgggagaaga gatttaaaaa atgatagaag atgggacct 479

<210> 985
<211> 556
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176781

<400> 985
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agcacactca atgcggaaga aaccaagtgg atacatggga gatgctgtaa attagggtcaa 120
gagcaggcta gggaggtctt ggtagtagag ggcttttcca gggccaaga cagaccctgt 180
gctcagtgcc cagcaacaaa atgagaaaaa ggtaggtgtg tcagacatag acggtttgta 240
taatgtccaa ctaaattgtag agtggcttca gaaatgcacc atgttaaata tttggatata 300
aacaacacta tctgaaattc aagtggagcg tgggtgtctt ttttgccaag ggaaagaagt 360
tagtttccag aaaggatgaa cattaagacc tttgtgcttc tgtaacagaa gttaagaac 420
catggaacat tactttgggt tcaacaggat ggtgtttgtt caaggctgag agcctcaagt 480
gagcaattta gcagagtctg tatacaaaaca gatttaccac tggggcacag agacttcctt 540
cgtgccgcct cgtgcc 556

<210> 986
<211> 599
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176810

<400> 986
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taaaaatata ctgtgatgga actgtaaagg gaactctgac taaaatcctt tctttttgca 180
aaactcacc tgcttatctg catgtctttg gaagaagggt tgctaaaact ggatcctagg 240
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<220>
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 cctctgtgac cttgttggtg ctactgctgg gcacaatgga aaacagtcaa gccccctggg 360
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<220>
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<220>
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 gacctccatt ctgtactgct tgatcagtc agccatctgc aaatgaatat cacaggggaag 420
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<212> DNA
<213> Rattus norvegicus

<220>
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ca 662

<210> 991
<211> 498
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176901

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gccccaaaag gcaggcgaaa gctgagacac cagtactcaa ctcacacctt ggagctgaag 180
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aacgggtatc ggccagccag catggtgaag agcgccacgc ccaggctcca gacatcagcc 420
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gcgtgcttgt cccacaga 498

<210> 992
<211> 575
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI176942

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acaatactag tagtagtcta cttactatgg cctat 575

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 <211> 435
 <212> DNA
 <213> Rattus norvegicus

<220>
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 cccacagacc tgtgggtcgg gacagcccat cttttccctg ggatatgaat gcactccact 180
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<210> 994
 <211> 595
 <212> DNA
 <213> Rattus norvegicus

<220>
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 agtatctttt catgtactga atataactat tagcacagtg tcaaaaatgt tgaagacaga 180
 aacaaaataa aaatctgtga aatgtttgccc actgacgaca ttccacaccc tattttattgt 240
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 atctgaatgc agtgcgagc catttgaaac catctacaaa atccacaaga ttaagcagtt 540
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<210> 995
 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
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 ttatcaactg acctggacca tcaactacaa aagggtata gttttttaat aaatgtgtga 180
 caatgcaaaa taaaataaaa acctgttaaa cacagagtaa actttgcttt aatggatata 240
 gaaaggaggt gatttggttt gttttcaaca catctgggtc tggcagcaaa taataatata 300
 ggtagcaat gtgccctgaa aatttctgct ttctgcttgt acttatcact tgaatcagag 360
 gccagacatg cggaaaatgc tctaaatcct ttaacaccct ccttcagaa agccacaacg 420
 ttaatgaaca taatggcttc acggccata gtatgtacga ttatttttcc ccagtaaac 480
 cggatggctt caatgatctc taaaagagaa acaaagatgc aagggaacct tccagggtcc 540
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<220>
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 atcaatgagc cgaggtgtct gagccataga atgggtcagct aaggctctgt tgaatttgac 240
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 <211> 610
 <212> DNA
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<220>
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 ctttgtaagg aaaatgttct gaagcgtcac cgtcaaggac tacagaaaac tgccaccac 180
 agataaactg ccacagtaag tgactacagc gtggctctgt cactcatacc agacaacccc 240
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 <211> 595
 <212> DNA
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<220>
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 tgttttcaaa acaaaggatt actacttgct gaggtgggtt cctgctttac ctagaactcg 180
 gcggtagaca acaccccagg cccattttat tagaagccaa agggcacaga agaatgttgg 240
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<210> 999
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 <212> DNA
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<220>
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 gaactagtgt gagatgatgt aaaaaattaa atgatttcca gttccaaaaa acaaagaaat 480
 taaataactc ccagcccaa gtggcaaac ggcatggga cctgccatgt ggcaaaagct 540
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<210> 1000
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 <211> 629
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<220>
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 aggcatcacc ctataaacac acgtatgacc acccatgcac acatacacac aacatacaca 180
 caaagattat aatataaaca ccaagtgatg aaaaaaacac tttgaatgct ctaaatacaa 240
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 aatttgctgc actttacaaa cagtggaaaa gaaaaaaaaa gtatttggaa tgttagacac 540

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<211> 404

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177091

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<210> 1003

<211> 594

<212> DNA

<213> Rattus norvegicus

<220>

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aatagttttg ctatttgaag aatattaggt aaaagatact atgtgacaca caccacaaga 540
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<212> DNA

<213> Rattus norvegicus

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gaccagtgtg agtacacagc agacagtaca agcttcca 518

<210> 1005
 <211> 560
 <212> DNA
 <213> Rattus norvegicus

<220>
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 <212> DNA
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<220>
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 aagaaaatat ttacaaaata caagtttttt taaattttta tcttttttgg ttttttttgt 240
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<220>
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 aaaaatcaaa ataaaaaccg ttatttgtaa actttatacg aaatgtaact cttcaagtgg 540
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cagagtgaac	agagtctaga	aacaggctaa	ggcattgtga	atgggctatt	gagaacggaa	180
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ggccaaaaat	ctctaaggaa	cctggaaatg	tacagaaaacg	tggttacact	aaacctggtc	300
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<220>
<223> Genbank Accession No. AI177341

359

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gtggcgagca gctagcatgg agtgactcag tgcttggggg tttgaagtgt gtactgcaaa 480
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<210> 1011

<211> 556

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177363

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cgacatgggt caagcgcaaa cataggcgac cgaggcaaca ctggacatgg aacacaggat 180
gggggacagg ctgggggtca gttcaagttc agggccagca agcagcaggg caccaaaatct 240
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gcagctcatg ggttctgatg tgctcgagct gctccaccag ctgcatgagg ttctcgaagt 360
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tgcttccaca gctcacacac agtgtgtagt ccccagggtg gttggtgctt tcccgcacca 480
ggaacaggcc tgtctctggg gggtagagaa gccgctccgc ctgctcccggt gtgatcttgc 540
cgtggaacca aggcatt 556

<210> 1012

<211> 618

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177366

<400> 1012

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tgacaggagg gcacagtggt cgaattgctg ctgagggggc ctgcccaggc cctacagtc 180
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ttcccagtag ttttatccaa gcttggtatt ataaagagaa agcggtggga gttacaggat 480
caagtaactc acaatggcac acagggttta aagctaagtt ttcctttcca catctcagaa 540
tttttccaat ggacttgtaa atcaactgtg tcaaatttat ttttaattga aactgtcaac 600
acacttgctc tccgcacg 618

<210> 1013

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI177377

<400> 1013

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caggagcaga tccgctctgc ttgtcttgct gggttatagg gggcaactca tcctcctggg 180
ttctggctgc tgggtacagg gctgagagtg gggtaggtt tggaaaaaac atggctgtgg 240


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acagaattta ctacaaaatg ccataaaaat cgcttcaact taagctctct ccccccgat 60
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cagattggta tcttcaaaca accccaccag gtatgcctcg ctagcctcct gaagggcacc 180
gatggctgca ctttgaaacc tcaagtcggt tttgaaatcc tgggcgatct ccctcaccaa 240
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ccttgctggg accgacgcgc cgctgtaagc gctcgaacaa gcgccgcaat cgcagagcag 540
aacaagacga agctccttca acgaaccctc gtgcc 575

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<210> 1017
 <211> 521
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI177638

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<400> 1017
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atctttccag gttgctttgc atcattaatc tgcattttta cttgatcttg caatttagaa 180
aagaatgcct gagatgactt taagggctta tcttttcggt catcctttaa caaggacact 240
ttgcctgttt tgggtcaactg tttgagcttc tcggaagctg ctgccctgct ggacttagaa 300
tgatctgggt tgctcttttc aagcaatttt ctccgcttct ccttctcctt tattttcaaa 360
cgcttctgat atttcttttt cctccgttct cgtttcttgt ctgtagctgt tttctcagca 420
gctgttttta gatctccagc tttatttttc tccttgattt cctctggggc caggagggct 480
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<210> 1018
 <211> 429
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI177790

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tgtggtgtgt caaacaaggt tgttttagggg agcaggccac atggcttggt gtctcccacc 180
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ctcgagttgt atcccgagtc gaatccctgg ctctgcgatg ggtacctgtt tacactggga 360
tctaacagcc atcagcctaa cagtaccag gcaggaatta ttatctactt aagtcactaa 420
tgagcaaga 429

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<210> 1019
 <211> 565
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI177869

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<400> 1019
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<211> 647

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AI177885

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catgtgtaat	aatttatcaa	aataagtttt	cccacaactt	ttccaatcac	ctctgaaaat	120
cctgatctga	cagtatacca	aataaagctc	tggacaagca	cctcctaaag	cttgggaagaa	180
cgcccggcac	gtctctcttc	tgcactcac	tgcactacga	aagactaaag	agaaatttgt	240
tctgaaaggt	gacttgctta	gtacaagagt	tgagttcaag	aagttaatgt	tttagtgcac	300
tttgctccag	ttttagccaa	catgctacat	tttccttttt	gctgttgctt	tgttttaggg	360
ggaagtgggg	tgaggagggtg	cacaaagtag	agttgaagat	ttccactgtt	ggaaaaagag	420
aggactctgt	aagcaaaaact	ggaagctgcc	ttgtacctta	agacactgaac	attttaagac	480
agaagctttg	caaaaacatta	cacaattttt	tattattaaa	tgagaaaatc	tcatttgtta	540
catcgtcaca	ttgtagtcca	agagaaatgc	tgcagtgatg	aagaaagtca	atgttggtac	600
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<211> 395

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AI177911

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accttctggy	gttggtgctt	cccacatttc	ttgcagaatg	tccggcgggt	cttaggaacg	360
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<211> 558

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AI178025

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gggggtcatgt tccacatggg aacagagagg cacaagggt tctaagtatt gcacagtctt 180
gaaaaaaaaa aaaaggaggt gggaggagaa gatcacatga tactgggaac gtctcacatt 240
atgagaaaact accaagaaac attcgaaaag aaaaccctct gtttctacag tagcttttagt 300
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acccccggga attcaggacc gtatttttga gaactgtttt gtttgacact cgggttaagct 480
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<210> 1023

<211> 566

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178027

<400> 1023

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taaccaggga acaggagctc taggttcaga agtaaataca gtaggcggta gtcggcgaag 240
gagatctggt caccaacaat gaagcattgg ccacccttgt tctggggcag aagagtttca 300
aatggcttca ggtgtcctgg aagctccttc ctatattggc ccttgctctc cttacagata 360
tgagatagtg gccatgcaat gcgcctgaac acgtcttcca gtccgtcgtt caccatgtcc 420
accagtgtct cctcttgctg gtctttgccc tagagcccga aggagtggcc cagggtgccgt 480
aggatggcat tcgattggta cagagtgagc tttccatcct ggaacttggg gatctgccc 540
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<210> 1024

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178073

<400> 1024

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cctgtgatga caacttcacc agtcctcta aaagcactgg ctccgaagga agcattctga 180
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caggagacaa gttccgcagc tccgtttcaa tcccagacgg gcctaactct ttcagaaggt 360
taagagcccc ttcatactga ttattttgta atccttcttc aagtttcaag tagaaatttg 420
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<210> 1025

<211> 599

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178214

<400> 1025

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aaaattcaca	gatacccatc	agctgctact	ttatgggcta	acagtgtctt	aatcggagaa	540
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<210> 1026

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178231

<400> 1026

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ccttgtttaa	caagaacaaa	atactttcta	atagaggaaa	ttaagaggta	ttatagaaga	180
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ggttcctggt	gtttcttaga	ccagagtctc	ctaaccgac	agcacacatc	caacactcta	360
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<210> 1027

<211> 488

<212> DNA

<213> Rattus norvegicus

$\langle 220 \rangle$

<223> Genbank Accession No. AI178326

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tgtgtggagc	attcttcgta	cactggtttg	cagcagtgac	attcacacag	atttcccagc	300
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catatacaca	gcatgatgat	agaaaacaag	atatagtaaa	tgagattcct	aaatttcggt	420
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<210> 1028

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178483

<220>
<223> Genbank Accession No. AI178527

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gttttaggct gtctcttgg aagtagagcc agcatgtcct tctaccatct tgaaatggcg 480
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gagtcgtcaa ca 552

<210> 1032
<211> 603
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI178531

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caatgtttgt gttttacttt ccagaaattt agggaaaatt tacagaagca gatatcaaaa 420
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<210> 1033
<211> 503
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI178533

<400> 1033
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tttctgggtc ccccaatggc agctgttgaa cccctggatc tagtatagaa tccacagctg 420
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<210> 1034
<211> 574
<212> DNA

<223> Genbank Accession No. AI178573

<221> unsure

<223> n = a or c or q or t

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gactgtctga	gatctttaag	gaaatgtatt	actttaccct	nccagcttag	gctgaattta	480
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<211> 635

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AI178602

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cagattaact	gtgggccatt	tcgatgtgtt	aacaatatcg	acgatctaaa	ctaaaatatg	420
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gtaaagccac	taagggtggg	gtgcctatca	tagtgctata	gatattttac	catatactct	600
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<211> 438

<212> DNA

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. AI178629

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caqaataqct	gtctctgttq	qtaqcataaa	caataqctct	tccqqcaaaq	tcataqqcct	360

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cgctgcctgg ggaaaaaca 438

<210> 1037

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178635

<400> 1037

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ttgtgagtag aaggaacgga acagcatttg gatggatgaa gacaatttca aaagtgtgag 180
cacctctgaa aagatttcac ccatgtgttt ttgtttcctt gctgatattg aggggctttt 240
attcttgggt ctatgtttca ctagaaaagt gggatattag gatatttttc cacgtcccct 300
tagatttcta agaaagagct caaagatatg tatcacctag caagtgacgt ttttcaacat 360
gtcggaaatcc aaataattac taciaagagc aagttttcaa ataccagaa aatttaattt 420
acatgttcaa aatgtatgcc cgtgatggat gtttcaatcc tgtgtcatca aatggatact 480
aaactggctg taatgaaaga c 501

<210> 1038

<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178734

<400> 1038

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gtgaatggaa tctgaatgtg gtaaggacat ggacttggaa aacataattg aacatcgtga 180
aattgcagtc tatgctttct ctggtctctt aaccagcta totctcagcc atctcgcaca 240
ctagacatcc tgactctacg tacacttttg tcatatataa tggcttcctt ctgactgaaa 300
tgtaataagt taacaggatt tgtatctaag gggcttttat ctgggggtgtg tattgccaga 360
agtgtgcccc attttggacc acataaaaac tttggcccca aaggaagctg gctgccatct 420
ggctgtggta accgtgaggt ttccgagggg cccctgggag ccccccacagg ataatttttc 480
atccggg 487

<210> 1039

<211> 587

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178736

<400> 1039

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ttgaaatgct acatttagta agaaaatcag caaggaagtg taacccaac atgacattat 120
ttgccaatca gaccagtggg ggtcctccgg gttagggcag gagactgact ggatagacca 180
ttagaggaag gagccatgcc tgagaaccag agccagcccc gagtccaccc tggtcacggg 240
cagctgaggg agctgtttta gagtatctat gaccatgaac acagtacaat ttgaatatcc 300
caaaaaaaca ttattgcagg agccatggca gggcaggcaa aagcccaccc agtcccaagg 360
gaaacaggcc accactacag aaggggacca caagttgatg atgttcaagg caagtcaaca 420
tcagggtcct ggggtccatct cattggaaaa gggccttcgt gttcgtgttg ggacggagca 480

tgtgatgctc tgacgcaatg ccgtggctga agctccagca cagcttacaa gtcaggaagt 540
agtttgtgca gatttcctta cacgtttcaa ttattagtga cccctat 587

<210> 1040

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178740

<400> 1040

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gtacaatata ttctacaact gagcaccact ttctgttaact caacaggcaa aggatcacac 120
tgaacatcag catctggcag tatttttggg aaaaaaaaag tgactaaaat gggtttaaag 180
tgattaacac tattaatatca catctaatat ttgatactac atgattcaat acagctatac 240
gatacaatta tacaaaatgt gttaacatca agaatacaaa ccaaaaattaa gatagcaaac 300
aaaacctata taactttttt ttgtacagga aaaatacttt tgaagtatgc atgtaactgc 360
ccattctttt aaagaaaatc taccgcaagc aagtcgtcac cctccagaaa gtcacacagc 420
attactaagc atatcccaa aaagtgtaca atatgcacac ttggaaaata caaaattaaa 480
aaaattgtaa gcaacagggtg agcttcgtat ttataagaat gtgaaaagaa gtcccatattt 540
tagcactggt gtataaagaa ttg 563

<210> 1041

<211> 656

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178741

<400> 1041

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aaccttgaaa cagttggagg gaggctattg ggtctactga gggtaggggt tatctgaatt 180
caagggttca gtgtggtcag ggctgaggac acttggaact aggtcaaga ttgaccagg 240
tattaacctc cgttccaagt tgtgtgggggt ctgaaaaatc ttttagagctc aagatttgag 300
gatgtcttgc cttagggcct agctttgaag tatggaagac catcgagtcc cacatttggg 360
tcagggggagt atcttgggggt ccagttttga gattggccac agatgctgtg gcttagaaat 420
ccagtttcaa ggctggatgt aagcgactga gtctcaaatt gagggctgag gaagcctgtg 480
gtccctcggt gacgggctag aggctaagag atgaccaggt tggggctgca gtgagcagtc 540
acagggtgct tttcttggac aggccagagg gctctaggca cctgttttaa tgactaggaa 600
aggtttgggt ttgggtgtgg ggggtgggggt cctctagatt cagagtataa ttgcca 656

<210> 1042

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178746

<400> 1042

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acaggctggc aaggcctcct gggcaaggag gcaggccagc agcctgcgtt tcttggcaca 120
cacacacaca gagaaatgaa taaattatag ttctgacact tagagacaat ataaaaatgc 180
atataaaaatc caacatcagc taatgaaggg cataaaagcc cccaagagcc acctctttct 240
tgccaactgg ccgggggggtg tgtgggtgggt caggatggat tcagtgccca gaaaggctag 300

agacagtgat ctgggggtgtg cttcatgtct tagggcctct ggctcccat cctacatagg 360
gcctttataa cccatggcct tggggagagg gaaatggaca gagggcatgt tagagcgtct 420
gggcaggggg cagagggagt tttgatcacc gatgggtcaag cacagcctcc gtctgctcag 480
ctcgaaccta cagccacac cgaagcccag accggcgggg gacaccgaag actttgcctc 540
aa 542

<210> 1043

<211> 485

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178756

<400> 1043

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gttaagcctg agtttcataa ggatagtaaa cttaagggag ccacgaagcc tgaagacaaa 120
ttcaggacag gaaagggcaa aacagccagt tccctgggtg ctttcctcac tggaaaatca 180
aacatgtatt cttactccaa cagtccctgtc catgtttgca tgtcaccaca cttagcaaaa 240
cacaacgaga tcatatatga ctagaactaa gtgcatagaa cgctgtcagg atcactgctt 300
gctcttcctt tttctcagtc tttttttccc agagctttca ggtgctggag tcttttgtgt 360
gtcttctttc actggtgaca caggcagttt caaatgatt tcatcatcgt cattgatttc 420
catcaactgt gatttccgtc tttccaaaaa cgttggtgta caaactggcg taggatcctc 480
gtgcc 485

<210> 1044

<211> 687

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178784

<220>

<221> unsure

<222> (1)..(687)

<223> n = a or c or g or t

<400> 1044

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tccgagctag gccagtcag tccttggcat attcacagta gcagccctag ggcttggccc 180
atgggcgggc agtgaggagt ttacagaacg gccagcccag cagtgagcac agatgtcctg 240
ggctgtcac cctccagtcc ttggtccctg tcttgacata ggaagaacag ctgctcagtg 300
caagggcaaa aagatcccat gccctaattgc tacctggtgc cccaggctct ttgtgcggtg 360
gcttcaggca acccggaag tcctagagaa tgctggccag ctctgtggag tctgtatccg 420
agcagcctga gctgctggct tcatctcgta aagcctgcag agctttcttg ttctgtcgcc 480
gcttctctc atcaatgggg tacagcttga agagcagcag gccagcagg atgaggatga 540
taggagccat ggtcaccagc atcttcagtg taaacttgac ctcttctggc tgggagcacc 600
cctgcgtctg gtacttagca nagtcgagac tgagggtaga gacaccagc gagactccag 660
aggcaactt ggtgaagaag acataga 687

<210> 1045

<211> 562

<212> DNA

<213> Rattus norvegicus

<220>

accatthaat	cagatttatt	atcaattcaa	tttgaaggca	atthttcaacc	tttaataagt	60
tatatccata	tctgagattg	tttaagcttt	ctcatggaga	aaaagaaacc	aggcagcagc	120
tagagctgca	acccaagttt	tcttctgctc	atccttaggc	atttgtactg	tgtggaccga	180
gtgactgggg	ccaggtcttc	tttctatgaa	acagagtctt	actgtgcagc	cctcgctggc	240
ctagaactca	ctgtgtagac	cggctgctgc	ctcctaagat	ctgagatttg	gttgatattg	300
tcctctagct	gctctggctc	gttactgggc	agctgatgca	caattttcttc	tttgtaagat	360
gccatggctt	cttcatagag	aacttgaaaa	atctcacact	gaatattatc	ttgtagtctt	420
ttctcgtgat	aacccttgt	ttcaagtcgt	ttgtacaata	taccattgtc	tgtcctcaac	480
acgaacacta	tatggaacca	gcgttcagga	aagaaatcac	aaccgtggta	atcaacgata	540
acgccgccct	ctgtcatctg	aq				562

<213> Rattus norvegicus

<223> Genbank Accession No. AI178828

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ggcctagggt	aaatgtggct	tttatttcct	ctcagggaaa	gaagtaaagg	gtggccttcc	120
caggtacccc	aacctaaagg	aaggtgggtg	tgtccagag	gttggggcta	gaattgccag	180
atcattccga	cagactcctc	tgtgtccact	cgctggcgct	tgatgcaggg	agggtgtagg	240
tgagagtcac	tcccctggag	tagcagctca	gtatcaacag	aggcacaagg	aggatatgtc	300
tggtattcac	aaaatggaag	gcagagcagg	tgccctgagt	gaggagcagg	actgggtggc	360
cgatccacac	ccagtggtctg	ccgggtacaa	ggcctgactg	ctgtgggtct	cctcccaagg	420
gccccagggg	cccagaagca	tactgcgtc	ctatggctgg	tcccttaaag	gtccatctca	480
aactgtgact	cttcaccacc	tgcccgttta	tcttcggggc	tgctgtgcag	atggctctgg	540
ctggcctgca	tgggaggctc	atcgctggta	gggctagtga	cccctggaat	ggttggcaag	600
tcc						603

<213> Rattus norvegicus

<223> Genbank Accession No. AI178850

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ctttttggtg	ggagtgggtg	gggcatggaa	gggatagaga	cggatggaga	cagcccagaa	120
ggagcgacag	ctctacctac	ccctgctgct	ttcctggcca	gccaggttca	aggtccctca	180
ctacaccttg	ccacgctgct	gtagatgcat	ggcgtggccg	agtcaggctg	gcctcgcagg	240
gagagatgga	aagaataaaag	cgctacaaaag	gctaaggact	tgacgcctgc	tctccagaac	300
tggattccac	acaaaagcagc	caagttcata	ctgaggggca	agccaggctg	ggccaacagt	360
qgttqaagag	qctaccctga					380

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI178868

<400> 1048

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gcagggatga ggacagtagt tgagtttgga gagaggcaac ggtgacggga ggccctggga 180
gtgccagatg gccactgcat ttctctggaa gcagtcgaga accaagatgc caatgcaatg 240
gttttctctg agtcgcaagg ctttggaag gacgagtga gtggcttggg agcaacagag 300
cctcgtgcc. 309

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<210> 1049

<211> 340

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178872

<400> 1049

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aatctttaaa aagttgagtt tttggaatgt acagtatatg aggtaaaatc aagattacat 120
taagaattgt tttctcctct gcactaacat tgcaatgagg ctcaaaggc aagtacacta 180
ttaaatgaca ttactatca aaaataggag ttcatgtgaa ttactatgaa taacataagc 240
cactgtgtgg cacatttcac cattttagac attcaactct atagaaatct ctgggctctg 300
acactcataa ctcatgtga ctgccaaatg tggcacttaa 340

```

<210> 1050

<211> 633

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178944

<400> 1050

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aaattcacct gcctctgcct ctggagtgcct gggataaaaa gtatgcacca ccatgcttgg 180
cagtcttgga atgcctaccc cctggccacc atgacatagg tagaaaagca gactgaatcg 240
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agaggccaat ggtataggag cgaccagtag ggttgtgaat agaagaacag actggcgctg 420
tcaccgccca ctcgtaaccac accttcttag aattgctgca tcgccagaaa cgcacacaga 480
tgtttctggc ttcatgcacc gtgatgggct gcttgatggg gaagaagatg gggaaccatg 540
agaacatgcc aggagagtgg gtctctgggc ggatactcag agtgatgtcc cggtaaagca 600
cagtttcaaa gtagcctgca aagccatgaa gca 633

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<210> 1051

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI178968

<220>

<221> unsure

<222> (1) .. (570)

<223> n = a or c or g or t

<400> 1051

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taaagaaacc tcatcacaac aatgcttttag ggcctgatca ctttaagtcca cagggccatt 180
atgaatttaa atctgcaagc cgttttccta caacaagagg gaggaacatg tttccttgac 240
tcaggtgaca cagaaaagaa atcatgattt ttttcttttg ctgtaacagg cagacattga 300
tttcttggtg tgatcaggaa agatggaatg actggtggcc ttctcttgct gctatcaaca 360
gtttgtcacg cattatctca atgctcgagt agtccggtaa ctttaagatag ttcacacaag 420
tcattacaga tggtaagaag tcatctgggt tttctggtga ttcaaagtgc ttccgcacaa 480
tcgtcagagg tggattttaa ctccgaaatc ctccgactgg caatcgtggg ctaccagtca 540
caaactggag aaacaacctc tcctcgtgcc 570
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<210> 1052

<211> 445

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179093

<400> 1052

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ttgtttacgc tacataattt agaatgaaca ctactgggtg gggttttctg ctttgtaacc 120
taatgttttt agttctgctg catttggtggc acgagatctc attttcttcc cttacaggta 180
aggacattgg cagcagcaac attacaattt aaagggttaac aggttacaga tgtcctaact 240
gtactgcaaa agatcttttc ctctccccc tcccccttca ctctctccat gacttcttga 300
aggaaatgta ggtacttttc catgggggtgg cccgttttga gagagcacia agacaaggta 360
acatagttct agttccctca cactcatctg acaagctgct tactgacact caagacagtg 420
tcttaggcct aggacagcca ttttg 445
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<210> 1053

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179099

<400> 1053

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gttcacatgg tcttcacttg attctcacct ttgtcctgat ttcttctgag gatagcagtc 180
atatcagatt aaagcccatg ctaaggatgt cacttaggta tttatttccc aagacaccaa 240
gacagtcacg ttctgagggt gtgggaactg ggacttgaac tgaagaacta aagctacagg 300
atttgctctc taagagaatg gaaatgtatt tattgagata atatacttaa tagcccaa 360
gaacaaactt actgaaaatt ttaaccataa ccgagtaaga tgtataatag attcaaagt 420
cttataaata tatattatga tattttgaag tgccttttcc tcgtacc 467
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<210> 1054

<211> 429

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179100

<400> 1054
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 cagccaaaag gaaatgattt aaggacagag ggtgaataaa gagagcaaag gtggaagacc 180
 atgatgtttc aaagctggca aggttggcct caatttcttt tcttctgtct ggatactggt 240
 tctgcttcta ggtaccggag cccaactagc ataccagga ttgagaaact tgctaccatc 300
 aagggtgcca gcacaccaac tgtgggagcc gctgttccaa atacaaacia ctccgagagg 360
 aagtgtccca gggcaaggag gaatgtccac agtgtgatgt gataaagtgt tttgttgtgg 420
 atgtcaatg 429

<210> 1055
 <211> 632
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179144

<400> 1055
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 gacctgttg gattgaacia gtcccagtc catgtccacg tacaatactg aacctgcata 120
 tgcagtttcc cattctcatg tccacgtaca atactgaacc tgcataatgca gtttccttta 180
 tcaagtacag tgctcacttt tcaggctcgtc tctaaaacat aaatacaaaag gaaaggaagc 240
 cactcattaa aaactgcac aaacacaagt attttaagt tgaatttggt gttcctggaa 300
 attacacatg cccaaagaaa acaaaagctg gaaaagcggg tacacttcct acatgagtgg 360
 acagttacia caacaatcgt cttctgtaat gagcattttt aatttatcac caactactct 420
 gaacttacta agagctgtag tcagagtcag aagagaagac gcagggagag tattcctttt 480
 ggaggacaga gtccctccag aatcatcacg gggaaataaa catcctgttg attccgggtg 540
 gcaaaaciaa taacgttgct aatctcagtt catgttgatc gtactgagcc gacctaaatt 600
 tcttccttgt cgtcattctt ctaaatcaag tg 632

<210> 1056
 <211> 261
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179167

<400> 1056
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 tctggggatg tcttcacagg gaagagagaa ctatgggtgg gctcctgcct gaggtctcca 180
 ccctcagccc agcggacata tcacaggcag cttaaaaaaa aatcctaaaa aaaccaaacc 240
 acacatttaa atcctcgtgc c 261

<210> 1057
 <211> 566
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179206

<400> 1057
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 ggctacatta tagtgaacia ggcagtgttc tacatgacia aaatcaaaac aagtttctaa 120
 ggtgagtacc gacaacaaga acacaggact agatatccat ccagctacac gtgataaccg 180

atccaaccac gagcttatgc aaggtaagta atttctatga caccaagtgc caatcactgc 240
 ccgtccacac tgcattcccc tggcaggatt ctgagaacat ttccataaca tacagatttg 300
 gcatggctcg gaaggacaga aaacgagAAC tgaactaaaa tcattgtaat aattctgtat 360
 aaagcatata tagtacgttg tcttattagt tatcaacaac aacagaaaga tttaaaaaca 420
 aagaccacct taattatggt gagaacctca tcatagaaaa atgttcatca tttgtatggt 480
 attggcagaa acggataagt tttgttgggg atgagggcag ggaagacata taacttgaat 540
 ttattcatct aaatttgccct cgtgcc 566

<210> 1058

<211> 541

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179236

<400> 1058

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 gcagcagcct ctgctgtagg cgcgcccacg gaaagcggct tggagtgtct gaccagcaga 120
 agcctcttcg gaggcggcct acgtacacac tgagctccag aaggagaagg atcctaacca 180
 agggccacca ggaagcagca agcaaggcct agttggcaca aagcagatat ccagtggccc 240
 gggccctggg gatcaacctg gggtagatg ggaaatgaac acagattctc tgcaatcaga 300
 gagtgcagcc cgaggccatc cctgagtctg agctggcagc gggatatgaa tttcctgttt 360
 cctcttctac cacttaggaa gatcttttaca cctccgcccc cagctctggg acccaaagga 420
 agtccctatc acatggccat aggctgcgag gctgtgtcag ggctcggcag gtctatcaga 480
 ctaccagct cacataccca catgggatgc tgaactggga aggagcggga cacagggcgg 540
 t 566

<210> 1059

<211> 547

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179264

<400> 1059

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 tacaactagt tagtgtggtg agttcctggg catcctaaca ggcccgtag caaaggctgg 120
 ctctccccta ctcttttta tgtgaatata gacaggagtc cttgggctga ggacaccca 180
 tatcctcaca cctaacctga atacctgcc tgtaagatga tcgaagaagg gctgtgggta 240
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 ggcattctctg aagaaagatc aaggagtggc cagtgcgggg gttgctctgc ttgagccatg 360
 tgggttcaggc aggaacatt gctggggggc aggaatgtat gttctgagct ctccaactgg 420
 tttgtgctgc ccattggtag ctctggctgt agggcagaca gcttcggctg atgctgggtc 480
 tcgctgggca aggcacgaat cttgcggtgc aacacaacat actcagcggg cactctccc 540
 ctgcat 566

<210> 1060

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179300

<400> 1060

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tcataattaa gttcagctaa cactaggggcc tatagtttgc tgtcagttag accaggtctg 180
gtcttgacag taaagccacc atcaaaagct gcattgagaa cttcatccag gcagctcgct 240
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ctctgcggaa ttatgatatg cttcagtcct gctcgggtgtg ctgccaggac tttgtcttta 360
attccaccca ccggaagaac aagtcctctc agtgaattt cccagtcac ggctacatct 420
gagcgacaaa gccgccact gaagagttag gcgagacaag ttactatggt aacaccagca 480
cctcgtgccg aat 493

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<210> 1061

<211> 632

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179381

<220>

<221> unsure

<222> (1) .. (632)

<223> n = a or c or g or t

<400> 1061

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gtctttttaga tactgaatct ctttggcgag agaactctgcc ttctctttca gagcctcgct 180
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gcggtaccta gtagctgctg tcttgttttg ctccatcttt ttcagcttct tatccaactt 300
ttcagctctc acttttagctg tcacactaac tccaggtggg tcataagggt tgggtcgaga 360
accacgagga acacctggag aaggcagact gtctgggtggg gccctggagg tgggaagggt 420
gtgttgggga gagcccaggt aggactcagg gtcatacag atgccactgt cactatcaga 480
gggagtgtct tcctccttta cactcgaag ggtagagta atataagcag cagagtcagg 540
cttcctatct ccttcagaga tatcaacctc acttcncagc tctaaactaa aggaatgatc 600
tggagtggaa gacagaaacc tggggaacaa gg 632

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<210> 1062

<211> 450

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI179415

<400> 1062

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aagtcgcagg cagggcacgg atggggaagg tctacatctc gttcagggtcc agcaggggtct 60
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agtcacatcaat ggtcttttcc agtttctgca aagcagtggc aaggcgctcc tgggcgcgggt 180
ccagctcctc ttcaaccagc tggatcctgc gggtcaagga ggccacctca gcttcagcct 240
gtccccgggc ccgcctttct cctccactt cccgctggag gcgctcggcc ctctcctccg 300
catcatcagc ctgctgctgc agaacctgga tcttgcgctt taccgcctcg atgggtggtgc 360
tcccggccat ggtgcctacc cagctgcttc tggaaatcag gttcctacct cctccgctcg 420
gcgtttagc cgcttttccac cctacttccg 450

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<210> 1063

<211> 490

<212> DNA

<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. AI179498

<220>
<221> unsure
<222> (1)..(490)
<223> n = a or c or g or t

<400> 1063
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caagtagtca aaaatacata aactctgatt ttatagactc taaaacatta aggtacaaaa 120
agtaagtaac atctacaatt agcagaacat ttatgacata taatttcatg tataggaaaa 180
caggtagaga ggactacaaa taaattataa cctgaagaca tactataacc tgaagacata 240
catataaaaa aagccttggg ttatttatta gaatctccca gaaaggtgaa tgatgctagg 300
acactatcaa caatgtgagc acaatctgac agcattttct tccacttcta ggctgtgcta 360
ctagcttaag aggcactgga cacagccagc ttcttcaa at gatccatgaa cacctgcagg 420
ctgacatcgt ctgtcaggat gggcgctcca gtttctctgn cccaagcata caggttattg 480
tgtgtctgag 490

<210> 1064
<211> 368
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI179519

<400> 1064
aaaccctca atttttagcag cttttaattt tttaagaaac tgaacctata tctgtaatg 60
ttaagatatt ttatatatag ttttcagcag gataaaaaaa cgtaagacta tttgaaggca 120
agaacattta ctctctcat tctgtgtaag gagagcaatg cagcaggtgc gtgacaaaaa 180
tattatacac tagatatggt ccaaagtcac tccgtttgct tgtttaataa tgttcaaatt 240
tcattggcca gttcttccgt ttctgcagaa ctatctccgt taactgtgat cttcatatcc 300
tcttcatatc caggaggcat gaaagccaga gcataaggga aaagcttatg acaactcacc 360
ctcgtgcc 368

<210> 1065
<211> 322
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI179539

<400> 1065
gaattgaaca ccaaaatttt attaaaaacc agtctcacat ttcaaagtgt atcttacaag 60
tgaacagcgg ccaggtgata taaataagga ggaggaggag gaggtcactt ctggagaaat 120
caaattcctc aggacagcag tgacacaaga gcatccagga acttgctccg gtccctcagct 180
ttcagctcaa ttactgagag gtcaaagtag ttgtgtagag tccgggagct ggtgctttct 240
gctgccttct caaatgccc accaaaaaag ttctttctat ccgagctatc agtctctgga 300
gggatgccca ccacagtcac tg 322

<210> 1066
<211> 564
<212> DNA
<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179570

<400> 1066

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ttgaaaaaag gttatttttaa atggatacaa agttgaagtg tgaaatgttt tcaaaatata 60
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aaggggatta gaattgtggc tgcaagacct cacatgtaca ctgccatcct tagatgtcag 180
ctggtcctaa gtggcaccct taactcacia atgggactca cactgaatgc ttgggaattc 240
cttccttttt gttgggttttt gtttttaaat ctttctccaa caaaactaat atcaaaataa 300
gccaaaacaaa ggaccgcacg ggtccacttt aaagtcactg acacttttcc tcgtaggggac 360
ttcacacagt gaacttcctt gactgctcac agtgatgcga cgtgaagagg caaagtgagc 420
aaatgcatat cctttgtaat tgataacct tcttaagctt cactttattc gtccatttga 480
tttttggcct gaattaaatg taaatccctg cctcatcatc aatcaggcac ttccctcctgc 540
agcatatgga aacacacagc tagc 564

```

<210> 1067

<211> 613

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179610

<400> 1067

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attagataat gccatttatt atttcacaca gaagtttagag accaagggtta caattatttaa 60
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acaaaaaata ccattacact ggtagaactg gggaaataac aaaaacaaga cagaaacaca 180
agacagaaaa tctctgcaca ctgatataca agtggccatg acgctggggg aaagcagtca 240
tggtcagtca acatggacgc cgactacca gggcactggg ctcagaacag ccgcctctac 300
cgaccacagt tctggggctc tgttgcagga tttggggctg ctgggtttcca agttcaggcc 360
cctggctgtg cttttggtga gggaaatgtg ccaggcatct ccttccattc cagagagaca 420
aaggaagaca caggaagggg gcgaggaacc caaaagctt tcttagaggc ccaagaaaag 480
agagccaggc aagattctcc cctgcagaga gaaggctaca tgagacagag ttcacagcct 540
ctggggggcca aactgcatc tacatggcat aaattccac tgccacgggc gccaacagga 600
aactgagtgt tga 613

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<210> 1068

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179709

<220>

<221> unsure

<222> (1) .. (531)

<223> n = a or c or g or t

<400> 1068

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tcagacatgc ttaaataatat acaaaacgac agtctctaata cccttgagga gaaggcggaa 120
cttcagtgtt cctcatcggg tcaggcacct cgccttggtg caagcatttc caggcggcct 180
ttgagtgtca gttctgcagc actgcttctg cagcgcagcc cctgcccggc ggctcgcggg 240
gacaggctat agcccgcggc tgtcagcagc acagtcctcg ctccagtggg catctcgctt 300
ctctgccacg agtttgatga actgtgagtg actggcatat agcttgagct ggtcgctgat 360
gtccacccac ttcaccttcc ccgcatcatc tccagcctcc agcgtgaggt tgtccatcgt 420
ctcncctgtc tcatcatggg agttcactgc ctcagtctcc atccatgcgt tgtcagtgtt 480
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<210> 1069
 <211> 444
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179750

<400> 1069
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 aagtaagtga acatatttct gcttttcctg cacataatac aattatattt taattcctga 120
 cacgaatggc ccatgacttg aattttctga aggggtgaca ggccatattt ttggatcacc 180
 tgccactgct ggctgatctg catctctgtt ggtttggtt ttgttggttg gtttattttt 240
 gagacagggt cttatttatg tagtccattc ctgtttcaaa cttcctgtat tgctcagggc 300
 aaccttggat tcttgatcct cctgcctcta cctctcaagt gctgggataa catgcttaaa 360
 ctggcccagc tgaataacat cttttgttta aatcctgtca gccacctgga agatagatac 420
 cttattagtc ccatttgcag atga 444

<210> 1070
 <211> 577
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179857

<400> 1070
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 atcctaaaaa tgacaggtgt ggacgctcct caggaagggg cgagcgtggc tggcagctcc 180
 tgtgcctcag ttactcagaa gcagttctgt tgcagtctct acatcccatg attttgaaga 240
 ccaggggccc tattactgcg ttccatcaaa aacctatagc acagagggtt tctatttttt 300
 tgggtgtattc tggactagac actggtgctc cagcatacac gtgtgcccac agtcgagctg 360
 tctgcttgaa catttcagga ttttgtttgt actgatttgc tactactgca tcttgggggt 420
 catctggttc tgcagcggcc agcagtgtt gcaatgacaa taatactgtg cgcagagtca 480
 ttgctgctgc ccattgatct ttcaggatat ccaaacaat agcccctgtg acggaactaa 540
 tattagggtg ccatatttta gtgataaacc ggacctt 577

<210> 1071
 <211> 458
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179870

<400> 1071
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 ggagagtcag tgcccagtac caaaaaccga ttcattttta attaaaaatt tcaaggttta 180
 tataagttta gctgtaaatc tattatcaaa agtttttaag catgtaagtt gcctctaaat 240
 gacaggggtt taaactgcaa atctgccccg agtgggtaac ttataaactg gggccctttt 300
 aaattttaca tattttaaatt atccaagaag cagctgattt caagtcctgt tcaaccttcc 360
 ttttctgctt ctgctctggc tgaaaactga gaaggaacct gagctttagg tagctggaaa 420
 attcctcccg ggtgtggctt tatgtgaaca tttaaagg 458

<210> 1072

<211> 568
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179953

<400> 1072
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 ccacaactct tattttattgt tacagaatgg cttcccaacg acattcttgg caggaagaag 180
 tgtccctctgt tggatttgtt gactgtcatc ttgtggacaa cacatcaggc agaatgacaa 240
 tgctaagggt caacttgtcc tagaaaagtt acacattgac ctaaaactagt ttcttctatt 300
 ttttccaaat atcaacattt ctgtttccag tttagaaggc aatgctgaaa agggaggcaa 360
 acagacattc aaagtagaaa aactcagttt taatcaacag gatttagagt ctagaagttt 420
 catcggttct ttgaaaacca ccccatcttg tttctgcacc attaaattgt accatggcag 480
 tgaaattccc aagcaaactc atgaagtctt ttgatactga ctgccacatc ccacagctac 540
 agagtagacg agctgggggt ggagggggg 568

<210> 1073
 <211> 597
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179979

<400> 1073
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 ctcaaccagt ttttaaaatc tatttgggaac attaaacatg ataaaagtag aaaaaaatc 180
 tcttatgaag tcctctacga aaggaaattg tgacaagttc ctgttaagac agaaaccatt 240
 ccatctccaa gggagaacaa gagaaacatg aatatgaaca gaaacaccta ctctctgggt 300
 ttatcctagg tagaccaact ctttacagtt attttctgtc ttccctggat aaataagaat 360
 cccttaacag cagcccgga attaaccaat tccagtgaag accctgagat ggctgccctg 420
 cagcaggttc ttgccttttg cagtcaacaa catcttttac aaagcacctt gacttatggc 480
 aggcgtgaca aaaccaggtg aattagttgt cccagccag ggcccgcca cctttagcct 540
 tctaggcgcc actgttgga aaaggagcca tcacagatcg ccatgccgac gtagccc 597

<210> 1074
 <211> 667
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI179988

<400> 1074
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 aacttctaca gggtttggta tgtgaaccac atattcaata gccaaagagag ggatattatg 180
 cggctcta at cactcttatt cagacaggtg tcaagcctga gaaaagaggc tccaccatta 240
 tgccagaagt ggaaggctgc cctttgttat ccgtttccag ggcaaccggc tcacaaaata 300
 agaagaacct cccctgtctt atgccagggt ttttgttgt actgtgctgt gaattgtatt 360
 tgcttcaaag tgtgggacat ttcacagggc gagaatggc aagtagcagg cccgaatgcc 420
 tagatcaatt gaatgagcgg ggagtctaga aagttcccct gccggctggg ggcccaccct 480
 tgctgggcag ctccctctgg ctcacacagt aattaacaga ggattcaagg ccgggcccaca 540
 actttgaaac agctgcagag aattctccct gctctcagca gcagtgcag gaagatcttg 600

agacagattt gcattgtaaa ctgtggagct gagacagcta cgagacaact gatcatacca 660
ccagggt 667

<210> 1075

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI179991

<400> 1075

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acacttctaa gataagaagc tagatgcagc ccttgctatt aaaagctgta cccaaacaaa 180
aatggagctt tagtctaagg cccgggcagt ggactataga atgtcagttg tctcccaatt 240
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tagtgctcag gggagacaag tgacagaact cagcagaacc tgtgaagcca tgtgtccacg 540
gttgacgggc ctatggcaca gcccagggtt ctaagactta ggatgaacct ttgtgcc 597

<210> 1076

<211> 528

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180040

<400> 1076

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gaagactacg ttgaggtgtg gattcaaatt cagtgcagaga aaaggtgtc ggggtctcca 180
cagtcagcac ggagggtttg ataaagtcag aggcactgtc aggcaccagg gctgctggac 240
attgaggtat aaccaggcac accatgctga gggagaagga aggtgacaca tttcactttg 300
tgagggaggt taagcagctg gaaagttagg aaaaacttta ctgggagcaa gatgagagcg 360
aagtctttta ggaagagaaa ttaagtccat aaaagctttt ctaacagtaa cagggtctctg 420
ctacctttta ccagcccatg cccacctgcc cttccctcc ccacactgag gctactctgc 480
ccacagaaga tgtggtcctt tgttctggag tttcctggag aaatatgg 528

<210> 1077

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180187

<400> 1077

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gattgattta tttacagcct tttccaattt tcagttccac tggagatata tttcacataa 120
tggttaacaa tgacttgaac tgatcaccag taaaaccctg ggctgacatg gggcctctgt 180
ccttctcccc ccttttaaaga gcatgacccc atttctaattg caaacatttt gcagtgaaga 240
atcacgagct ttcttgaatg aagaaaaacca accagaatta accaaatttc caacatgccg 300
tgtggcttct tctcaaattt agcatttgca ggtatgagaa accaaagcaa acagagttca 360
cattccccct ggcttctctc aacttctctac atacctcag gtcaggctgc tcttagctcc 420

gctcctctgg ttcagccaga caatthttaga caagttactc tttcccttcc ctttactatc 480
ccagtctcct gccttctctc ttgcttttct gacaacacaa aaacttccac ccacccttcc 540
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<210> 1078

<211> 545

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180253

<400> 1078

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cccacacaga ctgtgttttg atattccaat cgatcctgga ggagcatcaa gggcttaggg 120
atcaggagcc gcagccactg gtccgactct cttcttagtg ggagctcctt ggccattttc 180
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aatatcctca gcaccctgag tagcaggcag accttcttct acgtcaggag taaaagaaga 420
ttcctcatct gaagtagcag aatcaaatat ttcttcttca cttgtactct ccttgtaaag 480
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gtgcc 545

<210> 1079

<211> 480

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180367

<400> 1079

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aagggcctaa gtatgacagt ttccacatgt gacatccatt agggacactt taatcagagg 180
tggcaagggt caccacgggt gtacatggcc cggggcctca tgcaggccca gagctctgtct 240
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acagctctgc ctccttgtag tggggaggca cgcacttccg gtggcaggca ctgggtcattc 420
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<210> 1080

<211> 492

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180392

<400> 1080

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tttaacagtg gagttctgta aagtcaccag atgtaactgt aaaccacact gtgtcacaaa 180
aggctcacag cacagcatgt gtgggcactc agggtcagtc ggggtgagaa agggccagct 240
cctgtgtggt gtggctgtta gagcaacctg ttgacctggg ggcagaagtg accagggcag 300

aatgaaagcg tacagactgg aggataaggc tagtgctgtc ttgagggacc aggacccaag 360
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tcgcatagac cagccactgc ctgggccagc aactacaggt cccaagacag gcctgaggac 480
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<210> 1081

<211> 646

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI180442

<400> 1081

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actgctctat gagactcttg aggcggttgt aactgtcttc ctctgacttg aagaacacac 180
tccgcagatc cagctcctcg tacagtgtt tcacccgcgc cactttttct gggteettct 240
gcccataatt ctctcttaag atctggcgct gctgaggagt ggctcgtagc agacactgaa 300
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<210> 1082

<211> 458

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227562

<400> 1082

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aagcctcacc ggcaagatca tttgaccact aatcctcaac agatgaagtc tattcggccc 360
caggctaccg gccgggacca cgcaggagct aaagtacagg ctctacagc tagcacacct 420
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<210> 1083

<211> 600

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227699

<400> 1083

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aactgtttta gtacatcttc cctaatagtc acagaaaaca aaaattcaac ttttaaacat 240
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aacagcctag ctatctgtta tacaggttcc aacaaagaac taagggtcaa agcaaccctt 360
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 gctttgcaca gtcttgcaat gtacctcaca ctttccctca ctgtgccctg tggcttgctc 480
 tattgaaaca caacaatgca tgcttcttca gtgttctcac ttgttaaacc acttctgagg 540
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<210> 1084

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI227769

<400> 1084

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 tggcagctaa gcatctcggg gaaatagagc tgggtccaga aaacctaggg gtgacatcca 180
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 ctcatcatg ccagagattt cagtcagcaa attgttctgt atccatttct aggggattag 480
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<210> 1085

<211> 469

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228042

<400> 1085

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 gtagttttca tggatttctg gccggatgtc acacacaaag gccaaagggt tatccaggac 180
 ttcatctctg ttctgtctca agtagttctg gaggatgggc atcttctcct gggctctcct 240
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 atatttgaag gtcttgggga gggagtcagc tgaccgggag aagcaagacc tcttcagcag 360
 accttgaggt ttcctatttc tccttggggc caaccagtca cagagaaatg aagtccgtgg 420
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<210> 1086

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228197

<400> 1086

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 cagcagaagc ctgaagaatc cgcagctctt ccatccgcaa agcttccacc aaacagagct 180
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tctccgcaat gaaatcagag catattttct gggccacgcc caagcttgcc ttctcattcc 300
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 gacacaacaa cttgagagct gtgagcattc tccaagatgg tccatcccat ccaaacgtca 420
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<210> 1087

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228265

<400> 1087

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 acagcacgca gtaaataaat ccctcccaca ttttgtacaa actacatgat tttgatatac 180
 aaagattctg tttttattcc actgacaatg tacaaccaac actattttaca atgcaagggg 240
 aaaaaaaatc aaaaaacaaa aacacgttta taaaccacaa ttaaaccattc tgctactggc 300
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 agtttaataca aactgcaatc tagcttaagt ttctgtttaa agtagaacta agatggcagt 480
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<210> 1088

<211> 461

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228291

<400> 1088

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 agcatcccca gtgagggata aaaaggaagt atccaatact gagtcaaagc catatgatgt 180
 tattggttga gcgacagcac taggaccaac tgactaaacc agaactgaag gaccgggacc 240
 gggctcaggg ggttaaccagc agactcccac attactccga gaactagcct aggatctacc 300
 aagaaaagac tgggagcagg gttccgtggt ggcacttagc ttatacaagg ccctgggttc 360
 cgtccacaac accacaagga aaacaaacaa gcaagctact tggttgattt gaattcactg 420
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<210> 1089

<211> 536

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228540

<400> 1089

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 gtgaagggtg aagaaaatgg gccagtggtt tgttccatat gaacgggtgag gaggtgcttg 180
 ccaacactcg gacaggtcct gaggggaaat gaagttcatc agctccctca cttccaacag 240
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<211> 600

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI228557

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ggattcacca	atgatgggtca	ccaatatgtg	cttctttgtg	gctttcaaac	cctatttttc	120
atcactcaaa	tgtatccaga	gtatacttga	atttcataca	cagcttgaca	aggtgggtct	180
gacaggtctt	ccattagtca	atgaatggaa	atggatcttt	cgtgaaaggc	atagaaaata	240
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gaacaaatgt	gcccaaaagt	aaacaggcgt	ggatgtagtt	tacggttctc	catacactta	360
catatgcaca	aacgtcagca	gggagactct	aaggaaccag	caacttctaa	ctcaagttag	420
caactacgca	ccagcaaagc	ttatggaaaag	actcaatggt	gtagatgagt	taaaaagggg	480
aaggagctgg	ggaatgctat	tcagcttgct	gaaacaaggg	cacgcacaca	ccgtaaatga	540
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<211> 611

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI228596

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cctgcgtgtg	ctgcagacat	gggacacaaa	aggttggtg	caatcagcaa	agagtgc aaa	180
gcacctggga	ggaagtttca	aatgtctaga	aaagtagctc	agagctctgg	accactcacc	240
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aacttcccaa	caacactgaa	ctatctcctg	cgacccataa	gaacaattta	aaatacccaa	360
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aacttagaca	tgatatggtt	aatataacag	acattgtatc	tcagctaacc	tttcatgtaa	540
ggtgagaatt	aaaagacttg	ttcatctgtg	cactcaaatg	aggaatgtgg	tatcctagca	600
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<211> 592

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228624

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<210> 1093

<211> 586

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228630

<400> 1093

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gctgcacccc agataatgga tgtccggcca cattctggct agagatagaa atccaagcag 480
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<210> 1094

<211> 509

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228676

<400> 1094

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tctagcagga gacagccaag ctcatagcag gcatatggct ggacgtatga gttattctga 480
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<210> 1095

<211> 525

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI228723

<400> 1095

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0507200010730

<211> 487

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI228728

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gcttgctggg	cagattccgt	ttgctgcctc	cagcctctca	ttccgcctt	aattgtaggg	420
ctctgtatta	taaccacata	attcatgcct	ccctaattaa	agctgtcaac	agcctcattg	480
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<210> 1097

<211> 550

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI228729

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<210> 1098

<211> 511

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228931

<400> 1098

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<210> 1099

<211> 570

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI228959

<400> 1099

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tgtaaaaaata aaaaccaagg acacaaaacta aactcttaaa gctttctgta taaacttcaa 420
aagtatgggtt aggatggaga cttagaggca acagaaatct gttaaaccag aatctagagg 480
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<210> 1100

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229035

<400> 1100

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<210> 1101

<211> 430

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229167

<400> 1101

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 aagctaaaaa tagatatatta ataataattcc attttttatt ggaaaactct ttaaattaca 360
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<210> 1102

<211> 319

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229172

<400> 1102

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<210> 1103

<211> 467

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229178

<400> 1103

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<210> 1104

<211> 386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229192

<400> 1104

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 aagcgttgac accccactta cagcacattg caaatgtgcc ccccatcttt atgctggatt 180
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<210> 1105
 <211> 457
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229235

<400> 1105
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 tgtgttcttg aacgtagcac ttgtctacca ggactgtag aagagaatga ggaaaagcca 180
 ggacctgctc aggagcttaa gggttgggtt ggggtgggata tggacagtaa cacttctaac 240
 aactggtttt aaaataagaa tgtctttttt ccactgaaaa caaaattaat catttcatat 300
 tcactagtaa aggagctgct gggaaacaca atgcacacga gtctgagcaa cctcggcac 360
 agtagcagtg ctgagcccgt gtgctgacag gctctccagg ctctccagga tctcctacgc 420
 atagggctaa tatccagctt ttctcaacaa atttatac 457

<210> 1106
 <211> 414
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229240

<400> 1106
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 atttatgatt ttgtgctatg tctccttagc tcacagtttc cgggggctcc aggctttaga 180
 accattagga attgtcaaga aaagctcaaa ggccagactc atcagcactg atgggaccct 240
 cggagccttg ggctgggaag ggtgaagggt gaggaggagt tctcaggccg agcttagaag 300
 ggctttcagg caagggggat gcagatgcag ggagttgcgg gggaggggca tgaggcaaga 360
 ttgttcccgg ggatccctga gatgccctat attcaataaa atgactatga catt 414

<210> 1107
 <211> 482
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229253

<400> 1107
 gagtttaaaa attatacctt taattataga atattgttag gataatacag ctataaacia 60
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 actctccaca accatagaac acaggcacag actgtctggt atgtgcagaa acggccaggg 180
 acttgatgaac agaaggcatg cacttagcgt tagtgaaggg tgacagttgt gtgacttctg 240
 cagctcagcg caggaagggg agcagctgac catagctgag tggacagagc tggcacagcc 300
 actgcctttt tagccacca gctagagtgt acacatacga agaggtggga aggcaatcag 360
 aaaccttcca ggagcctttt catctcctag aaggcataag cagcaaatga aacacagcat 420
 aaccttttaa aggaaggcta gggctgggtg tgtgtgctg gtgtgtgtgt gtgtgtgtgc 480
 ct 482

<210> 1108
 <211> 501
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229307

<220>

<221> unsure

<222> (1)..(501)

<223> n = a or c or g or t

<400> 1108

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aaaaattctc agcaatatac atttgcaccc aagaaatata tgcagcatca ctgccgtctg 180
acaatgtcct gcactaacc accgactcct gcacatgtgc gttctacttg gggactcaga 240
acacaggctt cagtgcaca cttatttccg taggaaacac aggcccagtg gcgtcttctg 300
acaactgttt cccaatggct gagcacagcc tccatctgcc ttaaagcact ctcccccggtg 360
ccaatgaaag aaacaactag aattcaggag catttgagga tcccagtgcg ggaccgagga 420
gggatactta gggctaccct gtgccacana acttacgcaa aaatttacct agaaaacaaa 480
actgaaaaaa ctcttagatt t 501
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<210> 1109

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229318

<400> 1109

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cagtgaacat gcccaaccacg aatgcagatg tgaatattac acagcgtcaa gtcagtgaga 120
aacagaatgt aacatgacta tcgtgtatgg attgaaatag acgaagaata cagtaatttt 180
accggttaca ctttgtaaaa tcagacatga atttataagc agtgccttta ataaagacag 240
taatttcatt tcaaataaat atatttcctt tctattcctt tatcatgtag tttattatgt 300
tcctaactgg taaaacgcac cagattattg aactcagtaa taatccaatc catgatactc 360
catttgtctt acatttaact catttgatgt aactgcaag ttcacagagc agttcctatg 420
aaactgttag aacctaccgc agcctagtgt gacaggcctt ttggacaaga ccaagggggg 480
tacgtttgag cat 493
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<210> 1110

<211> 502

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229337

<400> 1110

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tgtttagctt tccattgctt tccagtactt gccgataga agctaacagc actcaaaact 120
ggggagttaa cacccaatac cacattttct aagacgttcc tcaaggcatt ggtgattgta 180
atttaaaaat aaaggaattt taattagcat tggaaatcta aatgacgatg ggtttcaaga 240
gctaaaaatc agatctttta aaaaaggctt tgttttattt tgaaggactc aaacctgaag 300
gacgcctcca atagaatata gtatgtccca actcccaa atagtaaattc atcatttcac 360
cttagagtat gagaactata aaatggaatc tctaaattat tacatatata aatacatcat 420
tttaacagtc atgtttgcta gcagaattat gaaataaaaa ccaaactctac attcacggta 480
caaagaataa tgttcttcca ct 502
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<210> 1111
 <211> 535
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229416

<400> 1111
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 aatattacaa atttcagatc acttcacagc acgtactcct ataaacattt aaaagttaat 120
 tttaattaag agtgggtcact tttaagttta atgtttgata tgaccaacat tccctagggtc 180
 agagcaacca aaggatggaa aacaactgga tcacactgca tatgtcccaa acaaacaaac 240
 aaacaaacaa acaaacaaaa caagaaagaa aaggaaggaa ggaaggaaag cacaatgtac 300
 aaaatgtgca tgtttcagtt tacactatac aaaaatagtt aaaatacatt ccaggtaaac 360
 atgttacatt aagaaatagc actagtaaga aattggcact caaataaaaa tgcagacgtg 420
 ttttcaacat tgaagacatg agacagtggg attggggggac caggagataa aacagcacat 480
 agcccactca gctgggtgga gttgagctctg aaactggcat ttctgcagaa cttca 535

<210> 1112
 <211> 555
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229502

<400> 1112
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 ctgtcagcca aaggagccag cctctgctgt caaactcgga gtcccagcag ctgatgacat 180
 gggagtcgga tctagtattg cttagaggagc ttgcttacaa tggcagctgg catgtccgtt 240
 agacctcttt ttcagaacca tttgtctcac atacttgggg actgctgtgc agggacaccc 300
 ggtgtggcct gacgaggcaa cgtgtacatg gctcccaaaa actggtcggc aatccttctc 360
 gcttctcgaa gccactcag cagagcacca tggaccgtag ctgggtagtt gcggattgta 420
 tgttctccag caaagaagag tcttggaactg cggatgtttt ccactcagga agaggcggca 480
 caaactgaac agctggtggc tgctgcttca gcactcccaa aggaagggtt cagagcactg 540
 cgttacactt tataa 555

<210> 1113
 <211> 550
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229680

<400> 1113
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 caggggggctg acgataggca gggaaagcct cccaggggct gttcagggtca aacttgcgga 180
 actcttgtgc caactccact ggctcagcca ctaccgctt cacctcatcg tcataacgta 240
 gctcaacata gccagtggag ggaagtctt tccggaaagg atgtccctcg aagccataat 300
 ctgtcaggat ccttctcaag tcagggtggg tgaagaagaa aactccaaac atgtcccaga 360
 cctccctctc ataccaattg gccgcgatgt gcacagacac tatggagtca atggctgtca 420
 gctcatctgc ataggtcttc acacgaatcc tagagttaaa ccgcaggggac agcaagtgtg 480
 agacaatctc aaaacgggtt tgccgagttg ggacatccac tgctgtcaag tcagccaaag 540

atttgaactg

550

<210> 1114

<211> 393

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229698

<400> 1114

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tttaattaag ttttcccaca aatcttttatt aataactcta atgacagatg aacccatatt 60
gccttgaggg ttagggccac ccaccagtgc cctgtatttg gaaggcccaa accattcacc 120
acattgaaca ctaggttaaa ataggtcttc taaacagtgg acaaccacaa atgggttaatc 180
aaaagataac tgatgaactc tcccatcagc tccctgcaag ctgcaggacc tcttagctct 240
tcatgatgta atcttgtcag agatgggtcc agaaaatggg tcatgacctg catccgcacc 300
accagtagta gtccatggga tggtagcgta taaggggtgg cagcagtcag ggcattgggtg 360
acagcgtttt gacggagacg tatcgtggaa ccg 393
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<210> 1115

<211> 544

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229739

<400> 1115

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ggggagacca aggaagaga acaacgcacc cgtaagtac agaggtcatt acaaggcaga 120
gcatgctgac atcaagttac aaacaggcca ggctgtcaaa agagctgtgt aggttgaggg 180
tggaactgg gaggtgtgtt cctctgggct agcgtgggag tagggcttgc tatcagttcc 240
tgagctcaaa gccctgcagc aaccttgggt tggcaaggac gtctgaggca gccttatctt 300
atactaggac catcagcccc agagtgcctg gggccaccat gcagcatggg cagtttactg 360
tggtccctt tcttacgggc tcaggagagg acttgagct gtgcctggag cacctgtggc 420
cactgggcca tgaacatgca gtgtctgtcc ctaactctc aagtaagggt gaggcagcga 480
ctgctgaagc agttgccagg atagcgggcc gtgcgtacag tgttcactca aggttttgtt 540
ccaa 544
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<210> 1116

<211> 395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI229789

<400> 1116

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caatctgtgg cttgaatggg agacctcaat ataggctgga accacttaga atccaaaaga 120
gggaggaaaa tccaagggtc ctgaagcttg ggtatcactg ggcagggatc tgggactacc 180
ttggacccaa gtctgtcttc cacctgtgga atgccatcta gggtcagcgg acattggcag 240
ttcagttccc aggtctggc tgggaaaagt caagtttcac actgtggctg atatagtaag 300
ccaaaccttt aatggtagca gtaaagcagt tgacagtgtc ctgcacctac actgcactta 360
ctgggtggac tccatggaag aagagccttg tggca 395
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<210> 1117

<211> 499

<212> DNA
 <213> Rattus norvegicus

 <220>
 <223> Genbank Accession No. AI229832

<400> 1117
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 tccaactccc taggagccaa tgtgcaaagg cagggagggc ttggagatca cgcttcagat 180
 ctacacagctg aatggcactg aggaagtcct cattatctga gtcttgaggg aagcaggggtg 240
 gggcaggagg gctggggggg gagaggatct gggcccctag ggccagctgg gacacagtga 300
 gctctctgcc cttatgcatg acgtaaaagt ggaagtgaag accgctgcta taggttgat 360
 gcctcagtga ccagtcgtaa cagggttgag catagtgtct gatcctgaag tggggaccgc 420
 caggattcat ggagatgaat cggcctccag gaaccagcac ccggttcacc tactcagca 480
 cctgtgacac agtgtggac 499

<210> 1118
 <211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229902

<400> 1118
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 cacttccata cttgtcggaa cagtatgctt cacatcaata caattatttt agttcataaa 180
 aaaaagacac gtgtctaaca tgcagcttac atacatgaca atctgcatta aactgaaaag 240
 attacacaac agtttagaaa acattgggta tcttcaaaca gcaaaaaaaaa atgacaattc 300
 tacaactaca gtttaaggca ttatcagcat attttataat caagaaatag acaaaagtgc 360
 taatgctggt cacagcttaa ttttcaattt atttttaaaa attcccttca tacctacgta 420
 caaactagac tctgaagggtc atgattcagc taacgactcc ataataaatg ttctgtcaat 480
 agaactagga ctttttgga cgggacaact ccagacactt gtgaatggca aaggagaggg 540
 attca 545

<210> 1119
 <211> 546
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229906

<400> 1119
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 gttcataacc acagcaaagtc tcaactgtaca cactgccaat acagacttaa taacacgatt 120
 ctgaactgta caagagttat ttattttcct taatctcaaa gctattttta gtagtataaa 180
 aaagccatat taacattttt tttccattag aaaacaacag gatgtacaaa actttggatg 240
 aaaagtatgt caaattgcat ttagccattt ggaggaaaat ccaccactcc atcagtacca 300
 cccaaagtgt ttttaggcag tgattaaaaat caaaataatg catcttaata aatctcagct 360
 gttaaaagaa caaacctagc aatatagaat acttttctac acagtatttt taactactca 420
 gttcaggagt tatttttttt ttctttttta aaaaccattt tcagttgagt gctactacat 480
 accaggcacc atatttggtc aactaggggt tttcgaacaa gttgggttaa gtgggaaaga 540
 cccaca 546

<210> 1120

<211> 450
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI229979

<220>
 <221> unsure
 <222> (1)..(450)
 <223> n = a or c or g or t

<400> 1120
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 gcctgctctg gaggagatgg atcaagaatc ctaaggcact gtgcttctgt ggatgccttg 180
 atgaagccaa agagctggca ctgtcaagct ctggtttcca tggccactgc cttcgggtgga 240
 gtttagttct ctcccagccc ctccctccttg gggcagggaa ttttagtatc tggtgccctt 300
 atcacaagggt cctgggggtct ggaggtagaa agtgagatgc aggagaagaa atggggcgang 360
 gtgataagaa ctccacttcc tgcaagtagg aaggccccag ccaaccagat gccacacgcc 420
 ccacaaggtc agaaatagca gcctcgtgcc 450

<210> 1121
 <211> 516
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230046

<400> 1121
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 acaaaaatgt acatacaatg ccagaattcc ttaaaagcaa ctggtatcac attttcttct 120
 gcataaaaca tgcattaata tcaactgccca catgttgacc caaaccatct ctatgagaat 180
 agtaagaaaa ctagtgtgta acaggtacaa aaagagggtt tctggttaag tggggaacct 240
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 ctacaccttg gtgctgacct ataaagggca gacaactttt tggtagttaa atctgatatc 360
 tgggaagata caaattttga ggacaacatg ctggtaacat gaaaagtgc actctcaa 420
 tcaaaacaac ctgagacttg gaggatccct aggctgtagg caccggagggt ttttaactga 480
 gccctatcca ggaggccagc tcagtgcaca caggct 516

<210> 1122
 <211> 544
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230056

<400> 1122
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 attatgagtc aagggtgcttg tgggttggtt gaggaagaaa agatcaacac atcatacata 180
 aattcacaaa gtgctgaagt tacacacggg aaactaactt tgaagtaatt ctggtggttaa 240
 aagtatcaac aatgaagatt caaggagac caaaccatcc catgaaagga ttagttttaa 300
 tcagagagca aggagagcac gtcattccca aaagccgaga ccatgactcc aggtctagt 360
 cacaccagga acatctgacc aaggaggtcc ctttccttgt ccatcatttc agttctatcc 420
 ctttttcaag ggcacgaat gctctgaaag tttcctgtgt cttggcttat acacatatct 480

acctccctcc cagaaagaaa gctcaagaaa gcaggagtgt gcagtccttc ttgttctctgg 540
ctga 544

<210> 1123

<211> 418

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230074

<400> 1123

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ttccttagtc aatgttctcc aggcccttgg acacatagta gcgattgaca ccagagatgc 180
gtctatcgcg ttccatcaaa taccattggg aatgaactcg agcaactctc ttttccttgc 240
ccccgttggg gaacttgtgg atgtacgcag tggacacccc ggggatgacc aggcacaccc 300
ccataatggc gaggccaggg agaattctga accacatctt ctcaccgtta ctcacactcc 360
aaccgcgtcac cgttaccggc tcctcagagg tgaccggggg cttcaccgcc ctcgtgcc 418

<210> 1124

<211> 531

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230134

<400> 1124

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ggaaaatgcg ggaatacaaa cagtcagctc ttgctaacag aatttcaggt tctaggctcg 120
atgcgatttt caaaatcacc aatccaaaaa aaaaaaaaaa aattgcttac ctcgaaaatc 180
aagaaattcg aatgcagact tatctttgga aactacaagt gactacagcc caggtgatgg 240
tcgcacactg cctttggctc gccgtgtcgt gtgcaaatgt gcagggcgca cttctgggga 300
gtgacgttag ggcggaggga gccatgcgca ggtgcggcac atttgagggg ctcgtcaagc 360
agtttggggg ttgataaccg acgttctacg tccattgggt tgggatgaaa ttatgtgtgc 420
ttgatcagac agatgtataa aattgatctg agcttgggtg gccatcccag gtgtctctgg 480
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<210> 1125

<211> 501

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230171

<400> 1125

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cagaaatgag aaaggaaaaa atacttctta cattttcaaa gaacagaaat agcgaagtag 120
attcatatac attcaacata tactgcgcgt gttggctact acgatataaa gcaatgggtga 180
gcttgaaaat agttcgcaag atggcacggg taataggctc actggctttt gtctgggtgg 240
ctctggaggg tgggtgtctg tcttccatca atccagtacc atgtaaacag gtcaggccga 300
gcgggggggag cagcaggacg gggctggagc atcagagttg gactgagctt ggaagccaac 360
aatagcttgc taagctttct tgaaagtcag acttctagct agtaattagc gacacctgga 420
gtggaggggg gattggagga tatgggacca tgggacaggt ccctagccaa gctctcacat 480
tgaaaacaaa tccgttcaag g 501

<210> 1126
<211> 626
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230228

<400> 1126
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ggttaaacta caaaaacagc catgcatca cagtttgggg gtgggggtgt aactgagttt 180
tgtttaacgg cctaaccgaa aagcaaagaa acaaccattt cttctacttg tggcaagaaa 240
agtaaatacat ggaactccta gatccttctc atgaagcagc tttaaaaggc agtaggtgga 300
gggtgccagt gtccacaaca gacgacggtc atgcacaaag tcacgggctg aacgaactct 360
gaaaagcctc tacagaactg tttcattaga aattcaaaaag catagatata aaccgtatgg 420
tgttttaaaaa agttcccacc ccataaacac ggcctatcat gctgtctttt ttatgggaat 480
tgcagtacac agatccagaa tgctcatcag tcaactgctga ctttaaccaa cagctgcaga 540
acctggccga ctcacagctg tccatccagc acataggacc tctcaacctc cttgggatac 600
gctcctaacg ataaagaacc agttgg 626

<210> 1127
<211> 463
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230270

<400> 1127
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cagctgctgg gaaccaaggg gaaggcctcc agctctgtca tgagcttgaa aggctgctcc 180
gtccctgggt agggagtaga agggagcctg cttggctgag gatggttgac tcacatagtc 240
cagtaagcat agagcagggc gaagactatg aagatggcca ccgagagtag catgttcttc 300
cggttctctt gtcgaagcag ctttagctcc ttctcatatt tcgaggcttt gttcatgagg 360
gcgtttttct ccttctccag agacctccga tccctaggac tcagctctgc cctgtggagc 420
tgggaggtca cggcctccag gtcctttcga cactgagaca act 463

<210> 1128
<211> 579
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230320

<400> 1128
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actagccact gatggtacaa aaattacaca ctaacgcaat cataaaaaat gtaaaactttc 180
aaattaaaca gtcaagaaat ctgtatctgc accatttcat acaccatgac agttgctagc 240
tgtggctgca ctccaacgtg agggcttggg tggagctgct gtctgtgacc tgatgctctt 300
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tcaactggcta aaatgacaca cacatctcac aggcacactt cagttctttc tccaaatgtg 420
ctcttggatg ggagtaaata acaacaggaa caccgggtgt gagagccaca gcccacacag 480
ctgttcctga agaaagcctg aatgggtcaa tccctgcctg caggaatgca agatatgcag 540
atcacggtac aattacgtga tttcctaata tacgcatct 579

<210> 1129
 <211> 547
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230326

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 cagtgtctggc ctggcactgg cgctgctatg agaagtagga accatggcgc acatgttacc 420
 accctggggc agacctccta gagactctgt gtacatgccc gggaggccag ggtttcaggg 480
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 gactgct 547

<210> 1130
 <211> 551
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230373

<400> 1130
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 caccaggatt ttaaggccac atgtgcatct ggaaggctgc agtctaggac ccatgctgag 180
 acaagtctct gggaccgttt ctccacatga ggggttagcg atcaccttcc agccttgggt 240
 tgcaggtctc attaggcaca ttagcatctg tctgactttg aaatattgtc cttgaagtat 300
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<210> 1131
 <211> 496
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI230395

<400> 1131
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 gaggttatac aaggaaagaa acatggctct tgtgttgcag aattgatttt aaatgagaga 180
 atttacaata ccaagaaatc catggtcata aagttttaac attttaatcc tacacattac 240
 atggcaaaac gatactggac cctatttcca cattccataa atccaaactt tagttcccat 300
 ttcaaacggt gccctaacca ctaaaaccat cagtgggtctt acaacctctg gattatggaa 360
 atacagattt ctgaagtaaa agctacaaaa acaacaatgg aagaaagctg aacaaacttc 420
 ccatgaatga aaataaaagt ggaacatcct gaagctctag acacttctct cccgtgtcta 480

tggtcaactt gtcggt

496

<210> 1132

<211> 663

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230431

<400> 1132

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gcttgctact cagagttcta aagaaactgt tcatgttaag aagtagctct tctaaattag 180
aaatacgcag agaacaacaa ctacgagaaa ggcaggagac atacaggctg caggaagatg 240
cgacagttct gaaatcagac cacttgctcg tgaacatctg taagcatcac atcggctctc 300
tctctgaatt tatatacatc aaaaatatac tccaagctgg tcgcggtatg aaaataaagc 360
atacaattta aaagcaaaat ggtgagcatt tacaacaaaa tgtgaattac ctgtacacac 420
gttttaagag gcacaatctg ttctatacag taactgtcat actgaattca tattatacac 480
agtgtatct gataagtggg ttgagtgaac acacagtacc gaaacattga tacaaaataa 540
attacatatt acttagtaat tttaaagtta cagacttcaa aaaaattttt tagccaaatg 600
ttcaactaaa aacaaatttt atgaaaaatt atgtcagatt ttacaaatgg cccctttcag 660
gct 663

<210> 1133

<211> 546

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230439

<220>

<221> unsure

<222> (1)..(546)

<223> n = a or c or g or t

<400> 1133

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ccaggtgggt caaagcaagg atgaccccag gctggcaaag tcctgatttt caggctcagg 180
ctgcaggtga cccttggtgt agctgggtta taggggcagc caaggactca ggctggggac 240
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gctgggtctt gctggtacga gtggcacttg gaggtttctt ggtggagtcc tgcgcccgcc 360
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agatgcgctg agagagcacg ggatccttgg acttcttggg caaggctttt gtaggctttt 480
ccatggatga cacctnctgc tcctgggacc catcctgggt cccttgctca ggcaggggta 540
gaccta 546

<210> 1134

<211> 651

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230577

<400> 1134

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agegctcgca cgtcggggcg agagtctgca gctttctttg ctcggccgca ggaacagata 180
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gatagtttat cgggaaagta gatgtccgag ccgagagtta cactaagcag tacgtgtcgc 360
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tacggaaggc ccataaaaag gcgctcttcc ttaatccgga cctcgatgat cttcagaaaa 480
agacgattcc cgtccgcgta caccacaac agcctgcact ataacaaacg cacctaaatt 540
ctgcgttgaa cctccggttc tgagggttaa acctttcaca gcgagctgca ccaaacctgc 600
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<210> 1135

<211> 385

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230614

<400> 1135

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caaaagctac tgtaaagcat atagattaag tgtagggtccc atacgtatga cagtttggtc 180
aagactagta ggtttgtgta tctttttctt taacttatta aatggctatt gtgaaagatt 240
tgtgcttggt atcagctctt aacttaaatt tttacatcac atcttccctg aaaacagtct 300
ttcttactgt cccaatggt ctcaccatac gccttacact caatgcggat ttcagtgtcc 360
aaggtgaggt tggatgaactg cactg 385

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<210> 1136

<211> 585

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230716

<400> 1136

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ccctggtagt gtgatgctta ataaatagga gtgaggggca ggggttcagat aagctataag 180
caggtgactc tccgtcagca ctgtaaaactc gaggtggccc cacactgctg gggaatgtgg 240
aatgtttcag ggagatgtta actgaaaaag caaaactaca atgccaaaaa atatgtgcag 300
cctctagagc gctccacgtc cagttcagtc aggagttctc ggactgtatt agtgtcatc 360
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tatgaagtta agccaattgc tttctctatc actactttgc ggctggagag accctttggt 480
gcctaaccct tggcatcaat gttctgatgg ctggcaacct gcataattatt tgagacagag 540
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<210> 1137

<211> 669

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI230743

<400> 1137

091800.0340

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atatcaaagt gagatccagt tatcaaaatg aaagcactca acatattaaa agttcacaaat 180
tatttgtaca gagcacataa aaaagtcagc ttgctatcca accgctgtgc tttttaaaga 240
gctactgcag aatttgaaga aaataggcat tgttagttaa cttataaaga gaccaaagag 300
cctgaaacaa gtagtaaaaa gaaatttttg cctttattag aatggcatta ggccttaaata 360
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actgggtccaa cagtcttgct tttcttttaa agcaagaaaac agaattgtaag taaccagaaa 480
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gaaccgttgg gctggggagg ggtggagcag ctgcagataa ctggaaccca gagtgcacgc 600
caagtcccat gaggctgctt gttgaaatca tcttttcctt ggtcacactg gttccctcca 660
atactatag 669
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<210> 1138

<211> 667

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230759

<400> 1138

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aaagcgctggc catttctgca acccagccct acccctcggt cctgcagcct cggtctgtt 180
ctgaacctgt tacagaggca gtcagtacta tgcttggcca gccagaggca tccagttaca 240
gattccccca caaacccag gccctgagtt tggattctt tctctctgtt cttgctagga 300
aagagatctt gaggcccagg ccacagaggc aagaactctg gtggtaactt gagatgtagt 360
ttggctagtt tcttaaggcc caggcacccc caaaaaagcc ctgggtgtggg ggatgagttt 420
cagtgccctt atgtaaaatg cacgggtaac attaaacaga ctacagccagc ttaaccaaata 480
gcctgaataa cactaagctg taaagaaagc aaggctcagac ctgcttacac caggccagac 540
acaaaatgcc ggaagctcaa ggtggagtggt caaacacaac ccaagggcac tgcccaggag 600
ctaaaagcct atactcagga gcccttggtat gacaagaagc aaagaaagaa aatacctaag 660
tcttaaaa 667
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<210> 1139

<211> 463

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI230951

<400> 1139

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tgccagcctc cctgtctgca ggggaccttt ccatcctttg tcatccttga ggccctgagg 300
ttgaccctga aactctcacc acagccggac tcagacctct catgcttcag aagggttca 360
ccaaaagggg agtttagacc acgtggggcg agccactgcc aggcaagatt taaggcaaat 420
ttgtcacttc atattcggtc cagccagac ctaaatctgt tat 463
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<210> 1140

<211> 296

<212> DNA

<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230956

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aattgaaaca aaatagtatt gtatagtctt ttaggaggca ataagccatc attattagt 180
tggtctgaacc tccttatcga taaccaggtc caggttgggt atagccctga ccaaaaggag 240
gacgggttacg agcttaaggg ttagcccccag tggaaagagg ggccatgggt cttgca 296

<210> 1141
<211> 596
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230981

<220>
<221> unsure
<222> (1)..(596)
<223> n = a or c or g or t

<400> 1141
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agcgggggtaa ggcaccactc tgggacagta aggtagctcg cagtaacaag agtcagcacc 120
acgagtgggt gctcagcaaa tacttgaata aatgaaaacc ataattagca caattctgtt 180
cactgccagc aattcttcaa ccccaataaa atatctatta aaaccagtt tgtacctgaa 240
tgcagattcc tgcttttttag ttcataacct tcttcagtg tttacatttc cttgaaaaat 300
taaattaaaa ccatacttta tgtgtactca gccacagaca taattgaatt actgacagcc 360
atgaacagat tttaagtga cagaggtcag ataaagcaaa cttgctcagg atagcacata 420
atactgaata tgaacctaca aatgaaaata ggtaaggaaa agtaacagtt ttgtttttta 480
atatttgcta attttttaat gccttagttc ttgagaaagg ccaaaatctc atgttgacat 540
gaacacattt taaaaaatgg tctcttaagt gtaatannta ataaaactag gtattg 596

<210> 1142
<211> 454
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI230988

<220>
<221> unsure
<222> (1)..(454)
<223> n = a or c or g or t

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ggggtagcaa agcccgact aacttcataa aatacaaaat aaggagagg tgacgggagg 180
gagatttgta aaatacaata tcttaggggg tcggcaataa taaaaataa ggttcattat 240
ttacaaacga tttctgttct tgggtctctgt acagtangaa agtggggggtg tgtgtttgtg 300
tgtgcatgtc tgcttggtg tatgtatatg agggggccag gaacagtggg tgcgttggtc 360
actatggaaa ggaaacagg gtggcccagt gagtgggtga ttggaggagg acggatagtt 420
gtgggaggaa aaagtgggaa cagagtgggt ggcc 454

<210> 1143
<211> 527
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231007

<400> 1143
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gaaaaaacia tctttatgcc tgattttaaa aagttgaaaa gaggtggatt tttcctttat 180
ggtgctgaaa ggaaggatgg agaattgagga gaaaataaaa ctgtgaggat caagactggc 240
atcttgctcg tacttatttt caggacaact ggggagaacc tgctgatttc cagagctgat 300
cccagcctgg gacttcggga aatcactgag cacacagccc atgtctgccca tattgggttct 360
actactcagt ccctccaaga ctgtttcata actgagagggt cattagcaag tgcattgggtg 420
ggcagagggtg ggacaaggct gaatggccaa ctgaggaatc tctgcacttt ctgattcaac 480
aaggtttaggc catcacagcg aggggtcttca gacataagac aggagaa 527

<210> 1144
<211> 327
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231010

<400> 1144
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ctgtcagggg gagccttaac cactgataag gggtcagggac cgaggaaatc cacgcttttc 180
ccaggagtgc agggactttt ccatagtcca agccgctttt gtcaggcttt gagcgttgag 240
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atgcgtgtca aactgtca caggaag 327

<210> 1145
<211> 618
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231011

<400> 1145
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cagaaccac agacacacag ccatgttcac agcctgacat ccaagctccc acacaccga 180
cctctgaggg cgaggaggaag gtgctgactc agatgcctgg gagaacacat gaacttgtaa 240
agaagataaa gaaagacatc catgttttga tattggaact aaaatggtaa gggctttggc 300
cagagtaaa aactgctcag tcgtatagaa aaggcattca gctgtcacat gtgtttatat 360
gaaaagtaaa agaagccgc agtatccagg gttggtactg tacactgtgg tttgggtgtc 420
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agtacacatc tggcagaagc cacctgagac cattcaccgg tctctctg taatgctgca 540
acgctgttgt ttctcacggc tatagggaca ctggcatttg gcttggtgtc cactttaaac 600
agcaaacacc ccaaaagc 618

<210> 1146
<211> 461

<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231127

<400> 1146
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caaaccacgt gtggtcacaa gacataattg acagaaacag ttcaactcat agcttatagt 180
gatgccattt ctccagcggg acaagagctt tacaggatgg tgccagggct ttcctggacg 240
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tggcacgctt gttgaattcc atgctttgga aaggctcctt ctggtagtca gcgccaagat 360
acgaccgcca gatctgtgtg ttcagtgggt gaacaaccgt gtttggaggg atcgaaagct 420
aaaactgacc tctctcccct taacatccca acccatccaa g 461

<210> 1147
<211> 523
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231140

<400> 1147
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tctccgtcag gccgtatcag agtattgact ttggccacat ctatatcata gagttttttt 180
cacggcctgt ttgatctggt gcttgttggc cttaacatcc acaatgaaca caagcgtgtt 240
gttgtcctct attttcttca tagctgactc ggtgggtcagt gggaatttga tgatagcata 300
gtgggtcaagc ttgtttctcc tgggtgcaact ctttcgagga tattttgggt gcctccggag 360
ccgcagggtc ttgggcccgc gaaagcgaag aaggaagctc ctgcccctcc caaagccgaa 420
gccaaagcga aggccttgaa agctaagaag gcagtgtgta aaggtgtcca cagtcacaaa 480
aagaagaaga tccgaacgct acccactttc cggccctcgt gcc 523

<210> 1148
<211> 528
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231159

<400> 1148
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atgattgctg actcagaagg aaatacgcca atggaactga gaaggcaaaa tttgggagct 120
gggacagggt ccgatgggcc tcccactcct ggaagaggcg gatcagggtac tcataattcc 180
gggcccgcga ggccatgtgg tcaatgagca gcagcatgca caggggggtcc tcatccggct 240
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acagggtctt ctcgatcagg tctcgagcca tctcctgatc ctcctgaaag cggcaggcat 480
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<210> 1149
<211> 574
<212> DNA
<213> Rattus norvegicus

[illegible]

<210> 1152
 <211> 586
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI231309

<400> 1152
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 cctattttgt acatatttgc atataaaagt tgtccttctc cagggtcagg gagacaggac 180
 tgttgcaacg ggccctcttt gaagtgtgtg tctctcttca ttgatgatgt tcagggccca 240
 aagaattcaa gggcagctcc tccccgcttc tcctcagact tggatctcac tccagttag 300
 gcttctcttt ttcttcttct aaacttctcg gggcatccca gatgtagctg ttgagtgtct 360
 ctccgagcaa gtacaggga ttcattagga gggttgtcga cccaaagaag atgatcctgg 420
 ctccctgagcc aatgtgttcc aggaaagggt acaccacat gccggtgaca tgatgtatcc 480
 agcacacca caatatatag cccacggaga aagtgcata ggccggcgagc ccaactgtctc 540
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<210> 1153
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 <212> DNA
 <213> Rattus norvegicus

<220>
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 gaatacacgg caggggagtg gcacttgga cagtctctgg acaccatagt cactgaggaa 180
 aaggtctacg tctgagcatt tagttatgag gccagttctg caggactttt tgaacaaaagt 240
 aattttctcaa accggctgaa ttcaccagtg gtgaggaggg ggatttgata taaagagttt 300
 ctttatataa gaactatgca tgtggaaaag tagacggagg gcaaacccta ggacgggcct 360
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<210> 1154
 <211> 446
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI231388

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 ggaagaaggt acaagagaag cggggtggga gtggggagct ccgggacatc agggatcagg 180
 ccctaaaaca caaacaaaac agcaagggga gtgcaagggt caccacaaaga tacagaaaca 240
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 cggaatttct aatttaattgt gaagcctctc gattcttaga gggcaactcg attttcttgg 360
 aaacattaaa tgaactaaaa ttagcagcg agccggcgag ctttctgcgc tctgcggtag 420
 acgtggtgtt acactgccac tctcca 446

<210> 1155

<211> 534
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231439

<400> 1155
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ccaaggcccc ccgcggtctt ctgtattgtc ccttggaagg gttcctgcga ggtccctcct 180
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cgggtgccggc caccgctttc tattggaacg ggtcttcagt cctgcagcta gctgagagtc 360
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ctgcccacgg agacggtcgc ccgaggaact gcgtgaggcg catgggcgct tctctccacc 480
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<210> 1156
<211> 526
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231448

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caagtccggt ggtacgcact ctgggcaggg aggggcagga ccatgcagtg cataggcgag 240
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cgaagctgtt gatgtcccag atgatgcctt gaacgaagat cttgtgctca tacatggcaa 480
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<210> 1157
<211> 446
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI231506

<400> 1157
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gtaaggaaat atatatatat ttctctcttc taacattttt atgcaaatta aaaatcagag 180
gcttttggtc tctccatttg cacaaggcca agctcattta cccacacagga caaagagatt 240
gtcccttaaa ctctccttcc ttctttgtac tctggccac ccagtgggga aacagaagat 300
cccaaggcag ggcaagagct cctgtgacct gggaggagga aagacaaggc agctacttcc 360
ccaccctgac agctccca ctactgccag ggctgtgttc cgaggggtcc tgacagtcct 420
ggatcccggg gcaaaacagt gcttac 446

<210> 1158
<211> 542
<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231547

<400> 1158

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tgctgtccag ctccaaggcc ttgttacagc tttcgatggc agctgagaag gcctgcagtt 480
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tt 542
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<210> 1159

<211> 689

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231763

<400> 1159

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aatctcttca ccattctcct caccgtctc ttgttctact gctcacgaag tatctgctgg 180
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<210> 1160

<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231792

<400> 1160

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atcaaaatgg tggcacatct caaagacggg tttcttgctc ctgtaactct ctgcctatcc 180
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gaacgggcaa cttgtttatt tatacgggta agaataggga agagaagccc ccttgggttag 360
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cttctagctg ttggctttca gtttgtggat cttcgttttc aggacctttc ttatccttgt 600
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cggtgccac ggggcccacg atttctgca gtggtgctc gggctcaagg ttgctgggct 660
ggaa 664

<210> 1161

<211> 410

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231797

<400> 1161

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agtaacgtga agttactgtc tgtattggag aggttgtagc tgacaaacac ctggttgctg 180
gtcttcctgg ctaaacgctg agcaaggccg gtggaagtcg tatcagaagt gtctccaaaa 240
agggaggtgc acacagggat ggagtcagga agagcgagtc cgttagccgc atgacatgaa 300
agtggacgag ctgctccac agcctcgac tgaagttgtg aagcgacacg tccgcggcgg 360
cttgcggtc ctccatccc ccagccaccg ggccacagcc tcctcgtgcc 410

<210> 1162

<211> 651

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231798

<400> 1162

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caaaggggag attctgacac agtcaaagac acttgtccat caaatgactc acaggacctc 180
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<210> 1163

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231800

<400> 1163

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aatataaaca aaacataagc aaactggcac tgtgtggtgg tgaacacctt caagcccagc 180
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agtggattta ctgtcgtagg aggtgagca tctgcatgtt ccttatgttc cagaaatcct 360
tggaaccgag gcgctagcac tttaaacagc tttgggatca agtccttctc agtgagccag 420
aagtcagcca tacgcatggc tcgttcgttg gtgtctccca gctttccata gtcgatgagc 480

ttctccgcgt agccctcat ctcgtccacg cgtgcccacg tcgcctcgat gcgttcgtgg 540
cgaactaggc ctgtgagcaa gttccgtaga aggtggatcc gggactcggg accgaggccc 600
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<210> 1164

<211> 712

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231801

<400> 1164

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tgccaaaaat gtcacatttt ttagctgttc aattccatcc atttccgtta acagctgagc 600
caaaacacga tctgcaacat tcccggcacc tgaagaactg cccctttcaa cagccaaggc 660
atcaagttca tcaaaaaaga taatggaagg tgccactgct cttgctttac gg 712

<210> 1165

<211> 591

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231805

<400> 1165

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gaggtccag tggctgccgc gcttataaaa aacgccaaag gaatgagttc cttatttttc 540
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<210> 1166

<211> 574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI231808

<400> 1166

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ggggtgggga ttttctcccc acaaataatg actactatth atttatgtgg cttactacgg 180

gtataattat atagtttttg actttaagaa caagaaatca aagtattcag aagagacgtt 240
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<210> 1167

<211> 578

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232006

<400> 1167

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<210> 1168

<211> 586

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232065

<220>

<221> unsure

<222> (1)..(586)

<223> n = a or c or g or t

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 gaggaacgtc agcaccattt gcagctctgn cttgcttttc gtgtttttcc cggtcatacg 540
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<210> 1169

<211> 582

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232087

<400> 1169

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ttcatatatc agtaagtggc tggaatagtt aatttagtca tgtatcctgg aaaatgagtt 180
tcaaaatctt cctctttttt tttgaggtca gctactgtca ataatggaca ttaggcaata 240
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<210> 1170

<211> 539

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232103

<400> 1170

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caagtccctc cacaggacaa gtgcctttgc gcggtgtgtg agagatttgc ggacttcaga 180
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agtgggggag ttgggagagt tgggtccac tcctcaagca tgaggagagc cagttaccac 480
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<210> 1171

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI232209

<400> 1171

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tctttatttc tgtcttaatt gctatggttt aaactgacca gtaagtcctt accctgcgat 240
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gcaaaagtag ctgggaactt agatcctaag agcatagcac tgtacaactg gcaaatagtc 360
agtcacactt gggactcagt ggagacaaat aaaaagccaa tcacagcaaa gtatacatca 420
aactctcaag tgcagcgact tgccaagtcc cagaactttc tgtttgagca aacgggtactt 480
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<210> 1172

<211> 564

<212> DNA

<213> Rattus norvegicus

[illegible]

<212> DNA
 <213> Rattus norvegicus

 <220>
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 gtttagttct aaagaggtcc tagaccaca tcttatcacc attagcaagg ttaggaagtt 180
 gatttctggc taatgatcat cacaggttct ataatacaga acagagagga gttttctaac 240
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 caaaaagatt tcttttagtg aatcactttg gaaagagtaa caaacagggtc tctggattcc 360
 caaccttccc tccaccatcc tgcaaaatcc atgctgggtt ctggcgtgag gtctgggttt 420
 taataggagg cacaaggtat gcctaactaa ggtcaagctg tgcccaccac catttgtcct 480
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<210> 1176
 <211> 614
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI232303

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tgacagggtg	gataggagcg	ggcagcaggg	ctgagcccc	acctgagatg	agcacaagca	480
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419

09-07-00-07-03

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catattaagg ggtatcttaa atatatcc 388

Figure 1 consists of 12 sub-graphs (a-l) showing the time course of various physiological parameters during the first 24 hours of a 72-hour experiment. The parameters are: (a) Rectal temperature, (b) Heart rate, (c) Mean arterial pressure, (d) Cardiac output, (e) Stroke volume, (f) Stroke volume index, (g) Stroke volume index/heart rate, (h) Stroke volume index/mean arterial pressure, (i) Stroke volume index/heart rate/mean arterial pressure, (j) Stroke volume index/heart rate/mean arterial pressure/rectal temperature, (k) Stroke volume index/heart rate/mean arterial pressure/rectal temperature/heart rate, and (l) Stroke volume index/heart rate/mean arterial pressure/rectal temperature/heart rate/mean arterial pressure. Each graph shows data for three groups: Control (open circles), 10% TBSA (filled circles), and 20% TBSA (open squares). The x-axis represents time in hours from 0 to 24. The y-axis represents the parameter value. Error bars represent standard error of the mean. Asterisks indicate statistical significance (p < 0.05) compared to the control group.

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<210> 1202

<211> 596

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233262

<400> 1202

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tagtagcagt gcggccttgg tgtctggggg gatcctgttg tctggcagga tcaggctgca 360
gatgcgcagg agctctgaag ccacaccac aacctgggtc gggttgttct ggtgcaggaa 420
gctgaagagg tgacctatag tgaccattc ctccatgtct tccttcaggg gcagggcattg 480
tagcagggta gctagcacct ggggctctgt ttttctgccc ggactggcca tcagcagacg 540
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<210> 1203

<211> 567

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233266

<400> 1203

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cctgcagcac actcctgttc tcttgggctc ttcggatcag gtagggatc accctctcca 180
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aactccgact agtggcctca tagtcaggct gggtagagtc ttcttccccg tggagctgtg 480
tcacggatct ctcttgtcc agataggcac ctctcaccaa cttcacccca aatgccaggc 540
cagcctcgtg tgccgcctta gcattccc

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<210> 1204

<211> 578

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233288

<220>

<221> unsure

<222> (1) .. (578)

<223> n = a or c or g or t

<400> 1204

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gatacacgaa acacagttct aagagggttc cactaagta catttttttt ttacacagca 180
tacatttgac aacgatgccc tttttaatat aaaattccgg ttacatatac caatatggct 240
agtttagcatt tacactgtgg cttgaatagc attgtgtgac tccaacattt ctctttgccc 300
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aatgaggggc ccaggcttcc tgccctccctc ccctctctgc ccacagcatt gattgcattc 420
cgtttcttcc acttttccttg ttctttccaa aaccacctga caggggttgt cctgacttct 480
gaggtaggct tcttgtcagg actgcttcgt tttgcccttc tgacttccac ngcacaagat 540
tatctaccaa aatcaaaaaca gaatatggcc ttactctt 578
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<210> 1205

<211> 474

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233300

<400> 1205

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cttattgggtg ctgatgtcca atagccttgg gggacctgcc ttcggctctc cacaaggcta 180
ttttgtttca caaagtaact cttcaactta cgctttacta taaagaaaat gtatccgatt 240
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ggccacgcag cagaacttcc tcaggcattt tcacagccat ttagaaagat gtcttcagcg 360
aactcgacca aattagctac aaacgcttgg caggatggac acgttgtgtc tgtgggcca 420
tattcaatcc aggtggagga atctagaggg tatatatact tgaaactgaa attg 474
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<210> 1206

<211> 425

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233323

<400> 1206

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tgtgaaggat tgacttcagt tgattttgaa gctttttgtt tatttgggga gggtgtttgc 180
tggttggtctg gttgggtcatg gctgacatga tctcactatg tagctgggct gtatcctgga 240
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ctgaccattt tagttcattt taaagaaata tctacttgag cttttgctcc atttggttaag 360
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tgggc 425
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<210> 1207

<211> 469

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233361

<400> 1207
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tttaatcttg agttacagt acctttttaa aacagaaagg cttttgattc acctacaata 180
tgagaacaag tttgtaactt aaacagccat aaaacaaatc acgcctgctc atgaaagcaa 240
tcgtcgttta cacttctggt ggtgatcacc aaaacccagt gaactttaaa atagcgtaag 300
agctggaagt gcgtgcagag tagcagagag gaggtttgaa tgatgcagat ctaagtatat 360
acacgtgagt acccagttac ccaaagtga ccacactgat gctattcaca ggtccgcatg 420
gggtggtttc tatcatctac agatggccat tacccttgg gggccgtga 469

<210> 1208

<211> 124

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233367

<400> 1208
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tcaa 124

<210> 1209

<211> 424

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233407

<400> 1209
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ttaaaatagc gccctaata gacagctaata tctgtataact aaaagtattt acacatggaa 120
tacgaaataa atacacagta actaaaagag atagttatcc atggattcat ttggcacccc 180
ctctgctcat cttctgctgc agtttccgat gccttttgta aatccttctc tttctcgtt 240
tcagatccac ttttggctct ggtttcaccc attgtacttc tattggtttc tcctctgctg 300
gtgtaacaaa cacatctgca gtgggatcgt gtggaagaat agtctttggt tctttcttcc 360
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ttac 424

<210> 1210

<211> 551

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233457

<400> 1210
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cactgcagtc aggaggcagg gaggagacag cacagccccc accagtttct gcataggagg 180
catgctggga gaacagaact cgaatgggaa gttacagaag aataaacagg agaacaggaa 240
attgagcagg aaagagaata ggaaagagaa agaacttaac aaggtaaatt aaggtccatg 300
gttcctgagg gactgaatgc acagagccga gaacgtccc gagatgggg accacgaagg 360
gtgtattctc atgcacaacc gcagctcgga atttcagccc acacacattc caccttgaaa 420
ctctgtgttg tcaaggcccc tgatggcctt caccgcatct tctgccgct ccatgtgtac 480

aaaggcataa tctttcacga tgtcacattc gatgactggg ccgtactcct caaacttggc 540
ccgaaactct t 551

<210> 1211

<211> 475

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233468

<400> 1211

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tgagatcacc ccaattaatg gggaaaagct actgtacagc aggtctccag taccttgcaa 180
actcagaatg cacaaggcct tctcttacct ataatacatg agtgcagctt aatttctctg 240
tggcatttgc cactggaagt tgaggctaaa ggtttgtcat tagatagtga tattgattaa 300
aatctatttt agggcatttt tgtgatttta tgtttgaact gaaaaagtct aatgactgat 360
cacaaatgtg aacgtaaate acaaatgtga acgtaaatec agagtgttaa gagaagtaaa 420
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<210> 1212

<211> 401

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233480

<220>

<221> unsure

<222> (1)..(401)

<223> n = a or c or g or t

<400> 1212

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gagacacagt ttgggaaatc caacccaacc tgtttaactg ggaatggggg aactttgctt 180
gaagtccacc agatccagga ggaaaaagct gttcctttcc tctccagtgt gaaccttggg 240
ttcatgtttg atattacgtg aagcataagc atgtatgagg tacaggtcat aaaacgctgg 300
ggacctttgg gagcaggacc ttatggggag gggaaggagc agagtatcag aacagtcact 360
catacatgaa gcaaaatcca actganggtt aatggggggag a 401

<210> 1213

<211> 411

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233494

<400> 1213

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ccatccactt cagcctcgtc gccctagcat tcccctatgc tggggaatca agctttccca 180
ggaccaaggg cccctctccc attgatgcca gacactgcc tctctgcag catatgcagc 240
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gggagtctgg ttggttgatg ttgttgttct tcctatgggg ttgcaaacc tttcagctcc 360

ttcagtcctt ccctaactc ctccattggg gtcccatgc tcgatccaat g 411

<210> 1214
 <211> 501
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233570

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 tcagggcctg tgctctcctg cgggccactg ggcagctatg ctgaaaaccc agagcagtga 180
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 gtgctgtctt ctggcttctg ctgctggctg gcaaacctgt attagttgtt agggcccatc 480
 agccaacctt gttttttggc a 501

<210> 1215
 <211> 345
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233583

<400> 1215
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 gactttcaac aactctcatg tacgaatcgc cggcggtggt gggcggtgga tgaggggggt 180
 ggggtgcatt acaccagcta cggctgtaca caggagcatc cgtcacatgt tcaccttcag 240
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 agtggttgct agctcataaa tggaatcaca cagagtgtgg agaaa 345

<210> 1216
 <211> 442
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI233639

<400> 1216
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 gcattccaca aacatggcca catagtagta catgaacata gtcttgattt agacaggtaa 180
 gaaggatcag attaagtgcc acaaatagtt aactaaattc caaggaaata ttgcttttgt 240
 aatgtgaaca atttgattgt atcataatac atattatttt aaaaaacaaa ataaaatttc 300
 tcaatcacgt ttcttcttgt ttctgggcaa ccaacatcct acagagcaac aagaaacggt 360
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 ttctccgtct ccttagtggt ct 442

<210> 1217
 <211> 603
 <212> DNA

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389

<210> 1223

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233818

<400> 1223

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atcaaaatac catctgtaaa gaacaggact cacttcgatc tgcataatgaa ttcgggtccag 180
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aaaacaacca ctttcagagg actagaagcc cacagatcta agcatcagta aacttttaaaa 480
aagacttgct ttttcttgcc aggaatgtta tttgtttgct gcagggttaca gttgaagctt 540
ggagcttttc aaagcgtcgc ttt                                     563
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<210> 1224

<211> 516

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233828

<400> 1224

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tagggtccaa ccgggaagga gcagggttag agatgggacc agtatctgtc atccacttga 180
gcctggaaac cctggatagg ggctgggttg ctgccagtgt ggtctcctgc aggttagttga 240
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ttgaatcttc cttcacagcg aactggtgct ccaagcgcag cagcagcatc tttggacccc 360
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gcatttttgg tgcttgctgag tgatagggac tgctaccccc gtggggccagc accacctgag 480
gggcccaggac ttctgctcc gccagcagtc ggtgtc                                     516
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<210> 1225

<211> 561

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233835

<400> 1225

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agcttattca aggtcacccg gctggctgaa gaccgaggat agagctgagg aagaatgctt 180
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gaacaagaga attactgaga tgaaagccct tccccgtacg tgtgctggca ggttatcagc 480
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gtgtaatgtc attcgtgtgc caagcacatc tttgccagca tagaacatgg ttttcccgtt 540
cgggctacac tcatagcgtg t 561

<210> 1226

<211> 553

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233836

<400> 1226

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gggcgggtct ctcttatatc tactgtgctg tatatgctag ggtagccggg ctgcaagatt 180
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aaagagaaat gcggaatttg ggagaaagga aaaccccggt aggcgggtctc aggagctgct 480
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gtttattacc taa 553

<210> 1227

<211> 376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233902

<400> 1227

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gcttttgtgt gggttctggg gatctgaatt cagggtgtga agcctatttg gctagttcct 180
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gcaattatag tctacttcat ttctcctttt cttttattca gtatctaggt actcagaagt 300
acaataagat gtaggtctaa tgggaacaat gcatgcagct catgttggag tggcagtttc 360
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<210> 1228

<211> 434

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI233925

<400> 1228

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aacacacagt ccaagtctgc tcaactatggg tgaaaagctc tatgggtcag tttgtaggtt 180
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gccctgggga gagcagtcct cagtgggatg tcatcataag gcagcttggc ttctccttgg 360
ttacctgcac ttaggtgtct tgcagggact ttttgtgaaa gctgggtcca atggggaggg 420
atctccttgg tgcc 434

<210> 1229
<211> 516
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234038

<400> 1229
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tgtgtctgtt tttaatctgg aacattctct atgaaacagc caattgttta caccgacacac 180
ttgacatttg actccagcac cagtggaccc gaagctgtca gctctggggc tataggctcg 240
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aagcatggga cagaacttat gcatgatggg gcacagggca gacctttcct gacgtccacc 420
tggcaggcct ggctaaccag gaggccccgag cctcaacctt tccagggccc tacctagctg 480
ccaagcagct gggaagagga aggaaggaga aaggag 516

<210> 1230
<211> 319
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234079

<400> 1230
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aaaagcttct ataagcagag tatcgtttcc tgccccctcc cccaaaaaaa tcagcttcag 180
gcatacattt gtgtttatgt ctattccttg agaatgttac gttagcagtg cataaagttt 240
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cagataaaaa tcccaagag 319

<210> 1231
<211> 530
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234090

<400> 1231
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tgcagagaac taaagaaaac gctcacttgt agcttacaca cattaattct aaagaactga 180
cgggaggccc cgcacggcg cctacacttc cgatacttct gagttcatac accgcagaga 240
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<210> 1232
<211> 564
<212> DNA
<213> Rattus norvegicus

<212> DNA
<213> Rattus norvegicus

<220>
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tgtctgtgct actgtaagag aaggagagaa gattattaca ataaataaaa atagagatgt 180
aacagagaaa aataaatcag tctagatgag aagtattagg agcaacagaa atttcattaa 240
gcagttttaa aataagcttc tttaaaaagg ttgccttatt aaaataaatc acaccaaaaa 300
tatagcagca gagaagaagg atacatacaa gttaattgca catcagtccc atgcaaaaaac 360
gtggatcatt agccaaagca gtagtactca gaatccagct tgggatgctt gtgcagagct 420
tgagagtcct ctatgataga gctgtcactg aactgatcca agtctgaagg ggtctgatgg 480
cctggtacat catctgccaa a 501

<210> 1239
<211> 499
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234810

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gcagcaatag tggttggttc ttattctttt tttaaaattt gtcataataa aaagaaaagc 180
aattggacca tggttaaatgt cactgctaaa caacaactta aaaacgcccc ttcataaagt 240
gaccaagcta ttctgagagg gttgatgctg acatgtccag taatgatgtt acaatttgta 300
gttttaaat cagtaacttt aagggtccaca aatccagttt actttaaaaa cttaaagctat 360
tttaaaactt aaaagaatat ctcaacctga ggagtatttt aggtcccaaa tccagttttt 420
taattttatac tccacaaaag agagagagag agagagagag agagatgggt tgcaaccctt 480
ggcctatggg ttcccaggc 499

<210> 1240
<211> 681
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI234830

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tcacagcact tgggaggctg gggccagcct gggctacagt gtgaaatttt gtcacaccct 180
caccatcc aaataagcca caaagtctta tcagaaaacc aaacagcctc aagcagaaaa 240
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cttccaaacg ttgtaccaaa agtatcctga gagatattct tctctctctt eggettgaag 480
gctttgggca ctttcatgga cagtttataa aggtcgtctg atgctaagtg tgcctcctc 540
acaaccagat ccaacgacgg ccccatctct tctagctcga ttctcgggtg tctgcacca 600
gatttcttca gcagcagctt atagcttcca aagtaaactt tcccattcag tgccgtgaag 660
tgcagaacat actctaactc a 681

<210> 1241
 <211> 575
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI234843

<400> 1241
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 gaaaagccca ctgtccctcc atgctcagac agggccactt tcacacacta gcctaactcc 180
 taccttcttc atgcagcacc atcaccacta ccaacctcac agaattaaca tgcagagacg 240
 tgtctgagga tggactagtc ctgaccaggg ccatgaggct ctagccatgc accctggacc 300
 gtgatgcgca ggacagatga actggctggc acaagctagc ccagaatctt tggccagggtg 360
 gaatgattca catactgcct tcacggtgtg gccctgttg gtatctcttg ccacatcttc 420
 atagacactc tgcactccaa tctccagcct tgtgcagccg taagtcaaca tgtcacttag 480
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 gcttctctcg gaataacttga ttgcctcctc gtgcc 575

<210> 1242
 <211> 477
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI234927

<400> 1242
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 ctgcactcag ttttgaactt tcggcagttt cccatagcct cctccattca ttaatttaga 180
 taactttaat aaaatatcaa tttggagata attttaagga cataatgaaa gccgaatttc 240
 taatacagtt cttacctaat ttcctatgcc ctttatgccc ctttgcccct aggagagctg 300
 accccagacc tgtgagaatg ggggagctgg ccctgcacct cacctgagta gcacagtaga 360
 gctgacattg gctgcagggg cagagtaagc caggcctgag tttgtgagca tgggagagct 420
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<210> 1243
 <211> 484
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235046

<220>
 <221> unsure
 <222> (1) .. (484)
 <223> n = a or c or g or t

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 cagcaggctt tgggttggtc cacaggggac agcagggcct tggagccaat gtgtggngnn 180
 gngngagaa gtgggngnn nggttccttc ccggaagtct ctttccttgg cagtctgact 240
 ccggggggcc aagtcaagtg gcgctgtagc agacaggcca aggaaaggga aaattggctt 300
 tctgtttaat tggcaaatgt tccagtggga gggctctgtt ttggtgggat gtgttacagt 360

atatgtacat gtctatggac ctgagtccttt aaggaattta tacatgggtc agaaaagatg 420
gttggtaaaa tcttgattat ttctttttgt taatttatct caataaaagc ccaactggaac 480
tcca 484

<210> 1244

<211> 486

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235224

<400> 1244

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tccgtggcag gcaggcaaag tgatcgctct ggtagccctt ctcagagccc atgaggatct 180
gatctgtcca cagaggctct ccatggctgg ggtgtaggcg aaccggaaac ctgtggcatt 240
tcccacagcg tcgaatcctt tgagcatctt agtcatcttg atctcataac gctgggtataa 300
ggtggtctcg atgatttctg gggaacccat gaatttagcc cttataacca ggtccgagtt 360
gcagaaagct gtctgtgggt ggggttggggc acagctacag gctttactgg aagctatcaa 420
tgatagcaac aagaggatgc cagaggccag agatgcaaag ggcgccatcg tggatctct 480
agcgtg 486

<210> 1245

<211> 623

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235234

<400> 1245

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cagtttccag taatatctat tactctattc agaattaagt cttccacaga caggttacct 180
ggaaataaaa gcctgttaca ataagcaaaag cttaaccag aatggctact tgctgtgcca 240
gaaaaaagct cattcctata ggaggaatga tgtgctgtgt aaatggccac agatctcagc 300
cttagcggca ctggaagtct attatccaat cccgcattga gtagtccagt gaattttgaa 360
aatcagttta cctgtaacca tgctggcaat cttaactga tatttattca gttaaaaaat 420
aaattaagaa atctcttaac tgatgttcct tgatttacat tactaaaggt acacagttca 480
tcacaatgca attctgctat cagaattaca tgagactctt tgcttagggt ttaattagca 540
gtaaagatca caaattcaag ttcttaatta tcaataattt gtcagctaag gtacattcag 600
gcaagagctg caactacaga ata 623

<210> 1246

<211> 442

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235277

<400> 1246

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gtgcccact tagccagatc aagggaaccc caagagagca ggggcaaate ctgcctcttg 180
tgccaagcct cagggcaggc aatcctggag aacactgcca gccttgggaa gcttgggaga 240
cctctaggct gttttccctt cttttcaaat ccacaaattt cctgacgggg agaagctgta 300


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agtgttccc gatgtgagat aggagggtag aaccagttag ctggactcac cgaagcacao 420
gtccaggaca actctagaaa gatctagctg tctctatacg attcttaaac atctccatcc 480
ttccaaaccc ctaaacccca acaacccgat aacattaatc tttcattagt tatataaaaa 540
taatcttaga ttcattgctg acatcaaact c 571

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<210> 1250

<211> 430

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235360

<400> 1250

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taatcacggt aggtcttggc atcaatgaag tgggatgatg ccacaggggc ttcctgcatg 180
gttgccatcc agagcttgag ttttgggggtg tgggtctatac actcattgag ctccagtgtc 240
tccagtcgct gaaaccacgg ccaaataaga taatcgatca ttgagagcga attcccaccg 300
aagaaggctg tcctcttatt agccatagcc tcttctagct tgctgaactc tttcttcagt 360
tcttcttcta tgcccggatg gtcttccttt ctcttcgccc taataaaact cgtaaccaga 420
gcctcgtgcc 430

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<210> 1251

<211> 362

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235460

<400> 1251

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catagaacaa taggcaattt catccggagc gtcattagcc attcattctc tctttctgca 180
caggaatggc tgccctgcag gggcagcaac tgctttcagt caagtctcca agctcaagct 240
cccagccaaa gccctttctc ttgcgctgta ggttgcccc acctggagca aaccttagct 300
ctgaagagaa tgagctatca atctgtcaat cctgtccgtg tccgggccgg gtgcctcgtg 360
cc 362

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<210> 1252

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI235584

<400> 1252

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acggaacggg ttaaacccca ggtagtactc ctgacacatg acctggtttt ccatgtgggt 180
cgaatgctct gtggcaggac tgacggggga gcagttttca tacgctcacc tctgtggggc 240
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tgagaggttg acgagactgg cgtgccccca ggagcaggc atgctggctg gactgttcca 360
ggtagaggag gtgccgtggc caatgaagtc ggtctgaact ttcgaggagc aggggaagcc 420
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gtacacgctg gaaaactgg 499

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<210> 1253
 <211> 494
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235675

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 ggggacaggc cttaggctgg cagagggacg gctgttctga agtacctggc actctgggct 180
 cctggcactc ccaagtccac attcaaggca acttgagtag aggcttcaag ggaggggaagc 240
 aggggaaggcc gcctgtaccc ttgcccaccg ggcctggcac tggctccctc ttccattgga 300
 cccaattttcc ttctgatggc agacctgatc tggagcagga caggacacaa gagtctcgtg 360
 cagcactaag ttctctccag cactccagcc aacaggctga tgtgaagata actgtgagga 420
 ccctggaccc ctggacccct gctggctcct gtgaggagga ggcagggatt ctctcaaacc 480
 tgggtctgag gccca 494

<210> 1254
 <211> 571
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235689

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 tgtcagatgg attcctgggt taagactggg tcgggcacag tccccttttg ccagacaatg 180
 gcatgaacca cacaggagct tctgccaagt ccaaatttca gtgagggacg actagagctc 240
 acacagggtct tgtcctcttg gcctttttct cagacctcac agcgctcgta tgggctttcc 300
 tcttctctgc aagcttgttg gcctctcgga ttttgcgccg cttgccaaac atgatctttt 360
 gataaaggta cttctctcgc ttcttcatca tcatgatggc caggcgcttg gcctcacttt 420
 ctctctctcgc ggccaaccgc tgctgtctt ccagcttcac agtgccggcc ataacctggg 480
 gcttcttccc tcccataggc tttgcggagc ttccggacaa acaccttgta ctctcggaac 540
 ttgttgacga tgggttcatg gaggaggaat t 571

<210> 1255
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI235842

<400> 1255
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 aagatggtga gacgaaatgt gaaaaggcaa attcacaagg gcatttcaac agtgacacagc 180
 tctacaccca aatgctgcac aggaatacaa tcaaaaacac tgtgtgceet ctcaaggaaa 240
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 ctgcagaaaa aatgaaaata catgtctctg aaaactgatg ttctcaagac accctactga 360
 cctcactcag aaaccggtt gcctctactg aaaaagggtgc cacctcacc aggggtccagt 420
 tctcctgaga tacacaatta atggtgctga atggcttccc tgaatgcct g 471

<210> 1256
<211> 516
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI235895

<400> 1256
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aagcctcccg agattcccca agatcaacat aacacttggc cacatacata tagttggaca 420
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<210> 1257
<211> 670
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI235948

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tttaccatgt aaaacatttt agaagggatc tagtaaaatg aataaaaagt ataaaagttg 180
tatatcatga ggaacgtgac aaaaaaagca aaaaaaaaaa acccaaaaaa caaaaattcg 240
aggctacttt atgagggttg atgaaagagt cacatgttcc cttaaactctg tgattttaa 300
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cattgctctt ccatagaaat ccttctagac ctttgctgaa gccaaaccac gcaggactct 480
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aaatagcata ggagctggaa tttgaggagg ccagaacagc ctggaacgtg tttctcttgc 600
cttctcctcaac aaggtcctca ctgggcccct cttaggggagc catggattcc caagtgcaca 660
ccaccacact 670

<210> 1258
<211> 673
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. AI235950

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taaagcagct cctcacttcc tacctgtcag acagcatgga catgttccca aactgggggca 180
ggttgccttt tctcctgaga aatcttagca gggtaaaagt tacttgccag ccagtctctc 240
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cagagacagc tacagccctg ctttttatct ggtgtgcaac ggccatgggc atgtgaggct 360
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caaggaaaca atccttgtct caagtctggt gcacttcatg gaacatgagc tcacggggga 540
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<210> 1259

<211> 506

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236021

<220>

<221> unsure

<222> (1)..(506)

<223> n = a or c or g or t

<400> 1259

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 aaatttccaa taatttttaca aagattcttg atcttcactt gaactggaca taagggaagga 180
 caggccctc aggttgctgt ttctctgctt gtagaaggaa acaaaagaaa cctgtggggc 240
 ggggaggaga gaaagaactg gtgactctca tgtctacttc aggacatgtg aagaggccgg 300
 tgtggagctg cacacctggt aaagtccagc acttgggagt ggggtcaaga gggtcacaag 360
 tttcagctta gcctcggtta catagccagg ctgaacgata actgtcagat gactttccct 420
 atgatttaga gcatgctacc acctttaaga taatgagaat ctcanaagct gtagtattgg 480
 aatacctttg aagacctcag acagct 506

<210> 1260

<211> 482

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236027

<400> 1260

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 ctcttgaggt ccaaagttgc aaacaaataa aaaaaaaaag taaaagattc ctcacgcaag 180
 aggcattttt ttttttgcaa ataccatgca aaacaggcag ctggcgagag ccttaagaga 240
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 gggagaaaag gaaacaaaaa tgctttttgg cgtttcaaga tatttggcac tctcgtgatt 360
 acattgttgt tgttggttgt tacagtccat taaagagaat aaagtgcac gatattgaag 420
 aaagaggggt tcgcacaaca gacccccaaag gggaggttag aaaaagctcg agcatgtttt 480
 gg 482

<210> 1261

<211> 484

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236036

<400> 1261

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gttgggacca caaagacctg ctcttgggcc aggtcactgg actcctgagg ttcacctgag 180
gttccaatgg agcacaagga aaggatgggt ggctgggaag agctccatct aatccacgtt 240
gccacacacc agcctttata tcgctttctg ctcctgggta ggagtagctt ccaaaggaaa 300
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gctggcagga gcaggaacag aataagtcag gacaaactga aagggttttag aggaacctgg 420
cagtatactg ggatttaact ggatgccaaag caggcgaggc ttgaagtctt gccttcttca 480
tctt

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<210> 1262

<211> 454

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI236066

<400> 1262

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atgattcagt tagtaacact ttcacgagtc attaggactg atattgctct gccataaatg 180
aattgaataa ccacttcaaa tacaatcagg attaatttga tagatttcct ttgtgtctgt 240
gtgtgggtgg gtatataaga cacatacaat gaatgaccaa atactacttt aagggtttcag 300
tagagaaatg aattcgatgt ctgtaagtta atcaaagtgc tcttactttg tgacatgttg 360
gagagactga gtcactagct tgtcactggg taggtgcaca gcttcaccaa aaagagcttg 420
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<210> 1263

<211> 687

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI236084

<400> 1263

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agacgccggc gccgtcctgg tcattaaacg ttcccaagcc acagttttta caacctgct 600
ccgttagttc ctggccgggc ctgcagtcct tctcacacct ggtacacttt ggccccaagc 660
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<210> 1264

<211> 292

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. AI236089

<400> 1264

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 gatctcttga gcatttcttc caaggacaga cttgggtagt aagccaggta gaaggcaagc 180
 gctcccacaa aactgtcacc agcaccctgt gtgtccacag ccttgactgc ttctgtggga 240
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<210> 1265

<211> 548

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236106

<400> 1265

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 aaggaataat aaacacgaga cttgtatttt accataatta tcttgccatt aagacagtgg 120
 ttacaaaata taaaacaaaa atttgaaaaa gaaaaaagaa agaagtacct ttctggctac 180
 acacatgatc agcttttagc ctgaaagggtc ccccttctgt ggtcacaatc acaggttcaa 240
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 acacagaaag caaaccaaca ggtaaactatg cttacacgga ctgcggaaat cttccgggtt 420
 aaaactgttg tgtttctctt gtttcttttt ttttaagaaa atgctcgaaa acaaccaaga 480
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 ctctgtgc 548

<210> 1266

<211> 612

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236146

<400> 1266

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 ttccaccctt ctttgagaca cctgagctca ctggtgaact ctgcttccaa gttctcctgc 180
 aaagcacacc acaagctcag tccatgttcg cagcccatca gcttcagttc acgttccac 240
 acttccagat cagtaacaga ggagaacaca caccatacag cattcacagc agttgacaga 300
 ggggaggga gtacaagtat ttcaactaac cacttcagct actgtgggtt tctaagaac 360
 aaaactcaaa gtcttccaac agacgtggat gtcctctgat gcagaaacac tcgtacgtta 420
 gttatctgct atcattgctc tctgcacact ctgcaccaa agccacagga ttgagggaca 480
 catctctcca agttaaaaa tatccatttt ccaccaccaa gtctttgcac gcgtctcttc 540
 cttttctcgc tcatactagc ctttcatgcc tcggcaccac catcaatccc acacaagggtt 600
 tcaaaaagttc aa 612

<210> 1267

<211> 503

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236227

<400> 1267

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tccgacatac tttctcattt ttgtgaccac atctccttgt tacaggtgtg aaacttaaac 180
atctattgta cacttttagca ttcttttgctt atcaaatcc catctaaatt ctgagccac 240
tctccctca aagtgtcata ttcaacagca ttgttagacca aaaagagttt tgtgataaag 300
atttccaaac aaagaagtat gtatcagact gacttattga agacaaaata tttcattcca 360
tttgagcctg ggtatgaggg ggaaatgcaa ccttcgggtc cactttcctc cacctataat 420
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gacgtgttgg atgtaatcaa aat 503

<210> 1268

<211> 398

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236294

<400> 1268

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cacaggaact gaagccagcg tgacgcggca ggcttttcgg taacaatagt tgagatggca 120
caggtgaagg gttgggcaaa caattcagct ctggtgagct ctgccacgcc ccaactgacag 180
catctggtac agactaactc aggcgtggaa aacgagccaa agtccagagg caggagccca 240
caaggggaac ctgaagaagg gaggacagct catcctgatc ctcgatcgaa gtttttagggg 300
gcacaaaac ttcttggtt cctgagaaca cagtagcttc caactaacac ctgggtcagca 360
accgtctgccc tgaagacttc caccttgagc ctcgtgcc 398

<210> 1269

<211> 529

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236301

<400> 1269

caacacttta tatcagaaaa aaagatcagt tttccaacaa taattccact gaatgagtgc 60
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aaggtcattt caaaaggaaa cctcctgatt acttcagggg gagtgccaac accactggga 180
accgaggaca taaggcagga acatggctac cacatgggtg gggaaatgggc tgctgatgga 240
atccgaaggg ttgtgaaagt caatcacgtg gatgtcgaa accagcacag ctgagccag 300
aatgtccctt cttccttctt ctccatagcc caggtgagga gggaccacaa tccttcgcct 360
ctctccaatg cagacacca gtaagccttc atccatccca ggaatcacat agccctgccc 420
aatgtacgtg tcaaaggtgt gggtccgtga atagctggag tcaaagaggg tgccatccag 480
aagcgtgcc ttgtaatgat acctaaggaa atccccactc tgacttttc 529

<210> 1270

<211> 499

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236302

<400> 1270

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ttcagcaagc agcagcttca tgtcctttga tgaggacaaa gccatgattt gtgtgggtgg 180
ctaagtctgg gaaaggaacc ggcagacaga tggctttcct cgggtaacac gctactttta 240
ctccccgggt aggtggtgta ggaccatggg ctcagcagca gaggtacgtg gaacttcttg 300

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gtctcctttg taatagtga aacaacctct acatatgggt aaaagctctc ttgaccccg 360
tctttccagt agcgctccgt gtcgaaggac agcttatagg tgcctggctt catctggctt 420
tgtgtcagga gcccaggaca gcgaccatcc aggtttgtgt agcttgttct cagctccatc 480
cactgctgac tgggggcct 499
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<210> 1271

<211> 575

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236332

<400> 1271

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aaagatgttc aagaattctg cctccaaacc acatacatga ctgccatttt aaacagaccg 180
aatttcaaac atgcaacaac gccactggta ataaagcttt ggaatggatg ctactctat 240
tatttcacta caaacgagat agaaagccgg cgagttggaa attttattct aaagcacaat 300
ggaggtggtc attgtctata ccggcacacc tcactcctct gctgccattt ttagcaagta 360
ttctttgtca atcttgaata gtctccatcc ctcttactg gacagatccg aagcacctct 420
tctttttag aagttgatag atggttcatt ccactctgct accaagaagt gcatactgct 480
gcagcgacac ttcataagcaa cctggcttag attcttcaaa atttctgac ctataccaaa 540
gcctcggtaa tcactcatca caaagaagtc ttcaa 575
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<210> 1272

<211> 552

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236338

<220>

<221> unsure

<222> (1) .. (552)

<223> n = a or c or g or t

<400> 1272

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acacgtcaag aaatcgggaa gatgcggcaa gggtagggcag ccgcctgtag tcagccagca 180
tctcttagaa cgggctgggt tgcagcccaa gtctctcaca gaggtgtagg cagtgcctgc 240
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acacaagtgg gacgttcgat cctgtagctg caccgaagtc cgtcttagag ggaatataga 360
cgtagggcaa gttctgggtc tcgcacataa ctggaagatg gcagtacacc tcaatcggca 420
acgtatctcc tgccaagacc atgatccctt tctcgccctt gttgacaaat ttctgaactt 480
ccttcacccc gcgacgaatc tgcttctgct ttacggcctt cttgatgcat ttgtnaagct 540
tgcgcgctcag gc 552
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<210> 1273

<211> 500

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236366

<400> 1273
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accaagctgg ggctgectcc cctgacgccc gagcagcagg aggccctcca gaaggccaag 240
aaatatgcaa tggagcagag catcaagagt gtgctggtga agcagaccat cgcccaccag 300
cagcagcagc tcaccaacct gcagatggca gctacgggca gcgggcactg gctatcatgt 360
gccgggtgta tgtgggttcc atctactatg agctgggaga agacactatt cgccaggcct 420
ttgctccctt tggcccatc aagagcattg atatgtcctg ggactccgtt accatgaagc 480
ataagggcct tgccttcgtg 500

<210> 1274

<211> 542

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236461

<400> 1274
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agctaaatcc ccaacgagat ctacggtttt aagactcctc ttgctgagct gccagtagt 120
ggataattgt cacagctttt ccaaagaacc taatccaaac caggcatggg ccagcacacc 180
tggtaatcct agtagtgagg aggtagactt aagagatga gtcctcggcc agcctctgtt 240
acataacgag tttgagacca gcctgagcta tctaagacct tacctcctac aactaaaaac 300
aaaacagaca ataatgatcc taatccaggg aactaacttg atgatttaag ggcatttttg 360
agacatcaga aaagcaatta aagaaaaaaa aaatcacaaac catctggaga aacattcttc 420
ttaatctaata attaatgctt gcctgtaaat tagtcttaca gttgatgcta tagtgaggat 480
ctgaactctc cccacaaagg cccagggtgtt aaaaagcctg cctccttggt gaatttaggc 540
ca 542

<210> 1275

<211> 321

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236473

<400> 1275
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tatataacag aaaagagcac aataacttaa gtgttaaaca tctgtatgaa ataacttgca 120
aagtttgaca actatgcaca catagaacat gcgggtgttt aaaaaacaga acaaacaaaa 180
acaccacccg attctgtaga accagcatca tttcaccagc gggagagcac caagcaaggc 240
accattggaa agacaacaca cttggaaagt ctctataaat aaagcaaagt ctaatctggt 300
cgaaaaatcg gtgtcttttg t 321

<210> 1276

<211> 490

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236484

<400> 1276
caaaccagt atttttatcc ctttgctctg aaaagctgtg tgtggggaac gtaaccaagg 60
aaagttgact agaccaatgg ggcttttgaga ccttaaactc taaaagcaga aacaaaccag 120


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ggaggggggc tgtggccagg cacaggactc tctacccata agacactttc tgctcaccca 300
ctgcaggggct ccagccaagg ggactgactg ctggcttttag gtttgctccc tggaagatga 360
gcctagttca gctcagggcg tgcgtggggg gtactcaggc agcctctgca gcctctcctt 420
ctcagcctcg ctctcatctc gtgctatcac caatgaatgt gaatagccca tggccacctg 480
ttcggagaag atgccatcca gagtcttcac ctcctgagct gcagtagaag acttggggctt 540
gtggtcccca tatcccaatt ccccgaa 567

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<210> 1280

<211> 625

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236601

<400> 1280

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cagccctgct tcgcatgctg ctacggttca ctagctgttg tattcttggt aataataaag 180
caaatcactc tactggacag acttaatttg gaaagccctt atgcagatca gactcagtct 240
catatgaaca accccggcca cacatgcgga aatgaagagc aaatgcagaa gaacacagaa 300
aacccttggt caagaacagc tgctgcagac tgagcccagc gctgtcagtg cagttcacgt 360
cctcagaaga caaacgacct ccctcctcag catatgagca gcaatactgt acagagctca 420
gtgggggtccc aactccacag gagcctgtca ccaaagtcac tctcatttag ggtcagagac 480
tacagactca agctttttct tttttccctc ataatacaca aaatgtctag acagtcttta 540
aaaaaaaaaa aaaaggaaga aagaaaatat aaatagactc agtctgtcat acagaatcac 600
atacaatggc aaacacattt catga 625

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<210> 1281

<211> 481

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236679

<400> 1281

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cagtaattttt tgaagacatt ttaaatacga ttggctatat cagtgtagta tcatttgtaa 180
aattacagttt aaaaagtttg gccagtttgg aaatccatct tatttctccg ccttccacta 240
ctcaatatga agctccattc tggcttgcac aggggtgggt ttcagctact aggccaatgt 300
tctgttagaa atctagtctt ctgcagaagg aacaggggat tgggtcaacag catacaagga 360
atgcacaaca agatgcaagc ccagactaga agtagcctta gttcaactac atagtatcct 420
ttctaagtaa aatgcttggc caatagaagc aagaaattgc aacaagcata tcaactgtcta 480
a 481

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<210> 1282

<211> 519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236746

<400> 1282

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tactaaacaa aatttcagtt gataaatgga attggatgat tgaaaatctt tatgaatttc 120

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ataatacaat atgtggctag ctgaaattgt ctatcacata gcatttaaga tataaaaggc 180
ctcatgctag tttgttaaac gcaaaggcta ccagacaagc acagagctgg atatatccat 240
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gctgtacaag tgacacttga ctcagagtgg attagtcttc atgcctggac tgaacccac 360
agctcctgta atttagactt taaacaaagt aaaaagcaaa acccttttct gtatgaaaaa 420
gaataaactc aattttacct ttggcaaata atatccccc aatgtatatg caactcaaag 480
aactcagagg ctctctagac aagcttctga tcaacacag 519

<210> 1283

<211> 652

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236753

<400> 1283

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aatgtaaata cctcagtgtt tgccctctgat agtttgcaat gaccaagaca tgatactata 180
gcctcatcaa gtgcaacttt gtacatgtct gatgcatata tgttgtgtac atgttgtgga 240
ctgagaggac atcttcaggc actggctctc acctcctaac ttgagataat cttgtttgct 300
gttgaatgca tcaagctagc tggcccatgg tcaaattttc ttctgtact aaaatgtacg 360
gcagcaatgg gataaatctt aggttaacag tatattcaga tgcactgtgt atagcaataa 420
aaagctccag tgatgttctc tttctaaaga cactactgtcc ttctggggag gtgggatctg 480
actctaactc ggcaccatgt ctagctcatt ttacaaaatt aacctttaca aagatctaca 540
tcagcatcta gaagagtcac caatcaatga tcaagaaaac tgttatttgc ttttctttct 600
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<210> 1284

<211> 420

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236761

<400> 1284

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gaacaggtcg tatggtggag ctgagctagt gtacaatgca ccagttgtac agaaacaaaa 180
atgaagtggc ccatcttttg ttcatttaaa atggtgtttt gaatttcata tgcagaaaac 240
gttttgttac attgcagatt ttaatgtatt taataaatgc aacatgcaga ttaagtgcag 300
tgtatactga gtattttaa taaaatgtac atttcataaa tacagtttca agagaaagca 360
tcattttgtg tataactaaca cattaagtgt atgtcagaaa ttgatgtaca aatatatatt 420

<210> 1285

<211> 522

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236771

<400> 1285

aataaagtga ggtttacatt gttgatagtg aagaacagtc ataacacata caaaataaaa 60
cctcttaggc tcaggtgggg acgtccaaaa gaacagcaca agagaaacaa aagcatgggtg 120

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gggtgggggt ggggtctgac atgtgatctg gttatcgga ccatgagacc caagcagaca 180
gcatggggcc accccaggat ggaggagcac taagttacag aatcagattg tttttaacct 240
taaaatgttc aagcaccatt ttaaagcaag caagcacagg tactcctatt gagcacatgg 300
tgggctgcac accctttcta agcacacaca tgcccggcac cctgcagtct ccacgcatac 360
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gtgctggggt ggggacccaa ggaccagacc tgcataaggc actgcctgac cacagtctct 480
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<210> 1286

<211> 655

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236772

<400> 1286

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cacaggcaaa gaagacagcc tttgtgtcta tagcaagctc agaggtagca caagagagta 180
tccatctggt aacattggaa atcatgcaaa caactgagtc aaggcatggc attaagggtga 240
catcagcatg agttataatt ccctgggtac aaaacctata tattcttttg gtttcaaaaa 300
aattaaatga atggcctact tttatcttct ggacaaaaaa acaaaaaaaa aaaaatctct 360
aagagcaaa gtcacatat gtcctaacca catacatata aaatattcaa ggccacagat 420
ggaggtcgct agatgacaaa agaggatact gagaggtaaa gtaaccagag agagatgcag 480
gagggaaagg cccctctgcc tccatggggg atgcaaaggc ttaggcactg gaacacccaa 540
cgtggaccac actgcctgcc acaaggaact cctcactgag ctgacgtcac catcatcaaa 600
ccgctcgaca ggcgggttga acttccttta catttcccat gggggacaag catgg 655

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<210> 1287

<211> 571

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236773

<400> 1287

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aatacgtgtt tatatacaca cattcacatc cttacatata cgcaccagga actcagggtt 180
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tttggtgaac tttgatttat cttctgaaaa gtggctttgt ttggtgagac gggcaggatt 360
cagctatgca taccaagtct cagagacagc ctggggaagc acaagggttca gacaatccaa 420
ataacactcc tgtgaggtgt cctcaaaaca catctgagga taccctgttc tcaaagtatt 480
ttcttccgag agccacaaag gccagagtta ctatgtaaat gtctatagtt aacgaaagtg 540
accgtttcat tttttagagc aacaattggt t 571

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<210> 1288

<211> 446

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI236947

<400> 1288

<211> 382

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI236972

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gacactgagc	atgagttttg	gtccatttat	tatttccacc	tgtccacctg	tccatctgtc	120
cccagcccga	aatctcacag	acactttttac	ttcaagctac	cttggggccgg	cgtctcagga	180
aacagcgctg	atacatggga	cggaatgttt	cagagcacat	gacaccgctg	tgaaatgaca	240
ctagactcag	tcaaggctct	gtggaagcca	acagcagcaa	acttgctaga	acagtaagcc	300
agcaggaagg	gaacgacggg	gtgccttgct	gccgacgcca	cgggtgacaac	atgaccatga	360
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$\langle 211 \rangle$ 410

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. AI236989

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agagcaccac	ctaaaagtgg	tttttttttt	aagctgaaca	ttttctccag	aaggagaaag	120
ttttttgttt	gtttgtttgt	ttctcacatg	ggaaagttaa	gtataatatt	taaaaaggag	180
aattctgtca	aaaagacact	gtgttgggga	ggagagtctg	ggattgccat	gtgaatcaca	240
ttttcttttt	tctcttcttt	tctgacacgt	ttgccatttt	cctcttcttg	gctggcgctg	300
ggctattttct	tttagttggc	tgctggctgc	caccagtgtg	gtcagatttc	tctgcattag	360
gtgctgacgc	ttcttctctga	attttgtcag	cagactcctt	ttcgatcgtc		410

<211> 469

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237002

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cagctgctgc	acgggctccc	ggaagtgggt	gctcgggttt	ttgtacaca	gcatgaagcc	180
gatctggcca	ctgggatatg	tgggaatggg	acagtaggca	tagctcacca	cagggaaagag	240
agacttgcag	aaatgcctca	tctccttgat	gaggttcagg	tgcagccact	ggcactcgcc	300
ctqqcaacaq	aqqatgccat	ctctcttgaq	qqctgtcttc	atgagctggt	aataggactc	360

cttgaagagg ctctcagcag ggcccatggg gtctgaggag tcggtgatga tgacatcaaa 420
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<210> 1292

<211> 441

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237124

<400> 1292

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cagacggtgg aaggaacaaa aaccaggccc aagcgtctgg ctttacattg caaataggga 180
cagggtgggtt cttgcctttc agaaacaggc ttggcagata ggcaaactaa gaagtaaaaa 240
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gcaagaaagc acccggccct ttgggatata caaatattta tcagattctc tttgcttgtt 360
acaaaaacag gaaagcttac agcagattat ttacaaacgg tctcctggga tatgattaag 420
gcagaggtgc actggctttg g 441

<210> 1293

<211> 451

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237159

<400> 1293

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ctgacaggat ggccaccgctc tcacaccaac cggaagtga atcttaacat tccaatgatc 180
tggaagggtc ttggtaaaact ttagaaaactt ttgtttttct tttagccact agatttttca 240
ggaaaaattc acctgcttta tatgaagatc gcaccaaagg gccacttgca gtgtagtgaa 300
atccaagtcc atttctact tcttcccagt atttgaactc ctcaggagta acgtactctt 360
caaccttaag gtggcgcttg gtcggctgca tatactgccc gagagttaaa cagtccacat 420
cggtgcacg gagagcttcc tcgtgccgcc t 451

<210> 1294

<211> 471

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237189

<400> 1294

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aaaaacattc actctgacag ttaacatttt tctaaatgta acaatttgaa gtttctaata 180
cactcactct aacatacagc cagatacttc ctatgttcct aaacaaacaa aacaagacaa 240
gacaaaacgg aacaggaggt attactctga agcccccttc cccagggaga gtagatagga 300
cttgtgaaga gaaacccttc cctttagcca gtatttttat tccctacagg cttcgcaaaa 360
gcgttgtaaa caatgacatt tggctttggt gacctgaggg aaaggcaaca ttgacttaaa 420
gacaatggat attcaataag aataaatata tgtgcgtgtt ctagaagac c 471

<210> 1295

<211> 545
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI237207

<400> 1295
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 aaaaaaaaaa tcttcagcaa atctagaaac gttgtctcgg cttgtcattc caagagagag 120
 agagaaagaa ggggaaaaat aataaaactt aaattcactt ttactttttt gcacgttcac 180
 aagcattcac cgtacgtatt ctcttttagt tttttttttt cttttataac cgctgtgaat 240
 tgtacatttc tgtgggttatt tttatcacc ttttggagat gcagttaaac tttgaagctt 300
 aagtgtgacc agactgtaag cggaagagct atagtgaatc caactttaga gggtacgttg 360
 tgacaagcga actgtttttg tttctgaagc tttactaata taccagagca ttggcgacgt 420
 tgtttttacat ctgttgttta aaatagatga ttataacagg gcgggggaact ttttctctgc 480
 aagaatgtta catatttgtc agataagtga gtgacatttc ataccctgta tatatagaga 540
 tgttc 545

<210> 1296
 <211> 540
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI237580

<400> 1296
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 tctcattccg tctctacttt tcttaaatta taaaaaataa aatctgacgg ttttgatttc 180
 aagttagata aggggttgcca catttcagca ctcggaagtg tgggtcccca cctgtacaga 240
 gcctcacatg ctacagagat ctctaaagca ccactgcaag actgagtgtg agtgttcagc 300
 tagaacggcc atgcctgcct tgccctcgag gtgttctttc cttgggattc gatgacaatg 360
 acagtaattt tgtttttctc cttcagttta gacccttctg tctttgccac catttgacca 420
 tctctgcagg cgtgattatt ttaaccagtc atttattcat ttgatagtga ggggtataatc 480
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<210> 1297
 <211> 610
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI237609

<400> 1297
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 attacaatcc aaggagggag gggcagagga acaatcaaac aaaaaggaaa actgagaaac 120
 acatggtggg caggaagggg ttcggctgga agggatctga ggggtggtag gcgtactgcc 180
 caatgaaaat gcagttggtt tgttactgag cactactcat gggaagagag catcccaact 240
 cctgctctat agaacgetgg gagtgaaggt gatgcaccca gatggaaaat gactgggaat 300
 tggaagacgg agaggagtaa agtcaaatac aactgagtc actggcaggc taactgcaga 360
 gaccaactct cacttaaaaa gctgggggct ggtgggggta atccaaacgc tgtaacaagt 420
 gatattcttg gaagattcaa gaggaggcaa ctcttctatg gggttgacct tcgcagcata 480
 tttatacaca cagcgaaca cagcgaaca cacacacaca cacacacaca 540
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ggaagcacaa

610

<210> 1298

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237614

<400> 1298

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cctaaaacaa atcccagata tcatatcgct ctgtgcacaa atgtttcagc ctttgtctct 180
aatatatgac cccttccctt aacaggatga taccagcatt ctgactgaaa atgttcataa 240
atatcttcac acagcaaagt ctgtcagggt cataactgtc tcatacatac tgtaagcttt 300
ctgtttgaac caggattcaa ataaggttca tgcattctct cagatgagag cattatggga 360
aattgacttg actgtttcat gtaggaagcc atcattgtga cctctccata ggccacctga 420
gcctatctga tgatgggtca agccccgtga tctcttccca agaggcgtgg gttcagaaaa 480
gtgctatctg atgggaaaca ctttggccct ttgtaagggt ccatcaacag ttacaaagca 540
catttgaagt ctgggtcctt gtgccgaatt ctt 573

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<210> 1299

<211> 673

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237618

<400> 1299

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agtgccgaga cttcagtggt tcatcttcag atataagggtc ttagtccagt agtgctgtat 180
tctttaagga caaaagagca atagctatag gttaggaggt cactaagcta ggacagggct 240
ccaatttgca ggctcagaag cctggacatc taattatgca acggtagaaa ccaatgccct 300
ggcccagaac agctcgggtc ccccagggca ggtctatata taattctggt ttggtgtaat 360
tgggttcttg aatgtgttgt ttcccaggcc caggctcctg cctgccacta gactgactac 420
ctgtagtcct accctgtctc tcagaaaaga aggaagccag gcaagacagc agaggcccag 480
ggcaggggag tgaaagggcc aatttaata aactacaaac tgggaccagg ccacagttca 540
cagtgatagg agcccatgca gtgtgtgaga ccaggagagg gacagcagca gggttacagcg 600
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gcacgactca tgt 673

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<210> 1300

<211> 604

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237636

<400> 1300

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ctgtcctcca gaagacaact gtcacaatt tccaccagc tgctaactta ccttacatca 180
cctctaagaa aatcagccta gagagccctc ttgaagatgg ctttctaata tgaaatgaaa 240
agggcaaggc acgtaaaagg cagcccaaca tcagtgaggc cctgggccta ttctggaaaa 300

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gctaacaaag cgctgtctaa agtgaacact cgtaaatac ccgcagggtga tttacagggt 360
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 ccattcctga atatatgcat gagagaaatt gtgtgtcaat gcacaagatg gccatgtgca 480
 tacaaattac agagacatga aggtcacttc tgtgattttt attttagatg ttctttaaga 540
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<210> 1301

<211> 597

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237698

<400> 1301

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 ctgcataata caaacaagga acagatgttc tgtaaaaaa gactgctgtg aactattctt 180
 aagactttta aagggtcttca tgactttaca gacatcttca cacacctttt ggtcctcaca 240
 acaaccctgt gaggtaggaa ttaacatgat cattagcaga gcataaaata ggaaaatgag 300
 atataccag gcatacaatt agtaatctgc tactatctta gtgttggtga ctttagggtt 360
 tgtgttaag cacaaagcat gaagtcctgt aaaatatgct ctgtttattc ccagagaggt 420
 aacaacatgg gatattgaat ctttattatt actgcatttt attatcattc tcttggtatg 480
 aattttcttc tttattataa cttatacaaa atatctccat ttctactgca atattttattt 540
 cccagtatat atacttaaaa tataaaaagg aagcaaatac aaatagcttt ctagaaa 597

<210> 1302

<211> 592

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237713

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 gcatcagtac aaaaaatcta agcagagaca gtagattagt aattagagca tcatgtagcg 180
 ttggttttag gaagaagcgt cacaggtaaa agaaggagca tatgacataa actcaaact 240
 gcaattcaaa tttacaaatt ataaaaattc accgctttta tagctgggtt cttttgaatg 300
 gctaaatttt agcctcattt ttttttcaat taaatgcctg ttaacaaaacc aattggacaa 360
 actcattttac ccaaattttac atcctagaat atgtaagtaa actgaagaca ttattcagat 420
 gaataagttc tattcatttt catcatctct gtgatcagggt tgcaaaggac atgctttttc 480
 ctttgctttt cctaagccac tgcttctctg ttcttcagga atctgggttt cttttttaga 540
 atctttaagg gacaacctga agaattcccc gatgcctttt tgccacttgg ga 592

<210> 1303

<211> 563

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI237855

<400> 1303

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ccaaaagggg cttagataa caagatacaa ctcttttattc aaaactctca aaatggggaa 180
tgataaagaa caggacaacc acactgatgt catctttgtt cttctacatg atattctctt 240
acgtctccca aacaagtgac aggaggattg agggacactt ccagaatggc taccatgttc 300
caggttctct gtgagatact ttgtgaaaat actctcccat ggtggacatg atcaatggca 360
ggttttatat aacaactcaa gagtcccccga gaagttaaac ccaggaaatg ttggaccatg 420
gaaagagatt gaaaggagaa cttttaatta tgagaaaagg atccagtaag aatacactta 480
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<210> 1304

<211> 493

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI638994

<400> 1304

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acactatata tacagcatgt ccaaataattc acaccactgc aaaataagga cgttttatatt 180
ttcacattaa cgtcaattat aaaattctga tgtgcccttt gaaactcagt caacaagtca 240
aaagaaaaaa atcaaaaacaa tgcttatttt ttaaaataac agttaattgt ctcttaaagt 300
atgaaatacc agtttggttt tatacatgaa tgattatatg acaaagacac ttactatgta 360
tttgagtctt catattttcaa aatacacaaat gcaatcatca taacgggctc catgatctgt 420
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<210> 1305

<211> 399

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI638998

<400> 1305

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<210> 1306

<211> 448

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639029

<220>

<221> unsure

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<223> n = a or c or g or t

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<210> 1307
 <211> 392
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI639042

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 acaagttcaa acattttctac atacaacatt tttagggttt catttaccaa aaacaaaata 180
 gtacaagttt tgctgcctcg atatatacat caaaataaat acttttaatt gtggaaaata 240
 gaaatcaaat ttcttaacat tataacaaca aatagtttac cctgaatttg tagtatcttt 300
 ttgttaaaaa ataaatttac ttaatcttaa atttaagtca atgtacttta atgcttttta 360
 aaaagagaca aaatactaaa ggacagggtt ac 392

<210> 1308
 <211> 388
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI639055

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 tttttgtaaa agcccaggcc agtttgtcaa aggaacccc tgtggggaaa ttttctttcc 240
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 ccaaaggctt tgtgtttgaa aaaaaaaa 388

<210> 1309
 <211> 533
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. AI639101

<400> 1309
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 ccttcattca gtatgtgat ttacattctt ggtggttcaa ggggagtaga gatacactta 180
 gaaccataag cagctcacag cagacatttt aggactgga gacttggtct gaggttagaa 240
 acatggagtc aagttagggt cccagggtct gtgacaggag gctcacagcc agctccaggg 300

cgtcagacac ccgcggaactc ggcatgtatc tatctgtatt cacatgcaca cactccttca 360
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 taatcctagc actcgggagg tagatctttg agtttgaggc tagcctgggc tacagagtga 480
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<210> 1310

<211> 413

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639108

<400> 1310

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 tcaaacacaa gaaggaagca gaaagggggg gtgaggagaa agcagtgttt gatatttcct 180
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 gagcctcaca agggaatggg tttgccattc ccatgaggcc atgcaactgag gtactaaaca 300
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<210> 1311

<211> 411

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639151

<400> 1311

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 ttaaaaaaga tgacaaagga tgtaaatctt tttttattat tatcattttt acatattttg 180
 gaacctcaca taattttgat aaataactct taaaaatta tgcaaaaagt acaagaatgt 240
 ctggtaaaca aacagtctgt attttccaaa aagaattttt acaacatgca attcttaagg 300
 cagcatcttc tttacaagg aatcctttta ctcatcaaat cttctgctgc aaagaatagg 360
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<210> 1312

<211> 447

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AI639158

<400> 1312

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 tcttggtgga gtctaaagca ctgcacagg acttgagact ggggtctact cgatggctgt 180
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<213> Rattus norvegicus

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<211> 1563

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<211> 1987

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D38381

<400> 1338

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<211> 2573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D42148

<400> 1339

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<212> DNA

<213> Rattus norvegicus

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<210> 1341

<211> 610

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D63411

<400> 1341

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<210> 1342

<211> 2091

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D63704

<400> 1342

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Figure 1 consists of 12 histograms arranged vertically, each representing a different value of n (10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120). The x-axis for all histograms is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'count' and ranges from 0 to 100. The histograms show a distribution of the number of non-zero elements in the vector x . As n increases, the distribution becomes narrower and more centered around $x=60$.

<211> 4358

<212> DNA

<213> Rattus norvegicus

<223> Genbank Accession No. D85035

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D85183

<400> 1344

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<212> DNA

<213> Rattus norvegicus

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<400> 1345

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<211> 1726

<212> DNA

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<400> 1346

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1726

<210> 1347

<211> 1156

<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. D87991

<400> 1347

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<212> DNA

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<211> 1743

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. D88666

<400> 1349

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<210> 1350

<211> 2696

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. E00717

<400> 1350

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<220>

<223> Genbank Accession No. E02315

<400> 1352

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<210> 1353

<211> 1458

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. E03229

<400> 1353

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<210> 1354

<211> 3225

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. E03428

<400> 1354

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 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31144

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 <221> unsure
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<210> 1356
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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31287

<220>
 <221> unsure
 <222> (1)..(403)
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<210> 1357
 <211> 283
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. H31620

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<211> 438
<212> DNA
<213> Rattus norvegicus

<220>
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<220>
<221> unsure
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<211> 275
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H32584

<400> 1359
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<210> 1360
<211> 437
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H32867

<220>
<221> unsure
<222> (1) .. (437)
<223> n = a or c or g or t

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<210> 1361
<211> 396
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H32977

<220>
<221> unsure
<222> (1) .. (396)
<223> n = a or c or g or t

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<210> 1362
<211> 381
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H33219

<220>
<221> unsure
<222> (1) .. (381)
<223> n = a or c or g or t

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<210> 1363
<211> 422
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H33426

<220>
<221> unsure
<222> (1) .. (422)

<223> n = a or c or g or t

<400> 1363

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<210> 1364

<211> 569

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. H33491

<220>

<221> unsure

<222> (1) .. (569)

<223> n = a or c or g or t

<400> 1364

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<210> 1365

<211> 299

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. H33832

<220>

<221> unsure

<222> (1) .. (299)

<223> n = a or c or g or t

<400> 1365

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<210> 1366

<211> 335
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H33842

<220>
<221> unsure
<222> (1) .. (335)
<223> n = a or c or g or t

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<210> 1367
<211> 294
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H34047

<220>
<221> unsure
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<223> n = a or c or g or t

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<210> 1368
<211> 419
<212> DNA
<213> Rattus norvegicus

<220>
<223> Genbank Accession No. H34186

<220>
<221> unsure
<222> (1) .. (419)
<223> n = a or c or g or t

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<210> 1369

<211> 405

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. H34687

<220>

<221> unsure

<222> (1) .. (405)

<223> n = a or c or g or t

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<210> 1370

<211> 684

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J00728

<400> 1370

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<210> 1371

<211> 950

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J00735

<400> 1371

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<210> 1374

<211> 573

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J03627

<400> 1374

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<211> 1444

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J03863

<400> 1375

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<210> 1376

<211> 5224

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J03914

<400> 1376

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<210> 1377

<211> 1164

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. J04943

<400> 1377

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<210> 1378

<211> 1021

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. K00996

<400> 1378

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<210> 1379

<211> 1362

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. K01721

<400> 1379

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<211> 263

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. K01878

<400> 1380

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<211> 959

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<400> 1383

<210> 1384

<211> 2146

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L07073

<400> 1384

505

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<210> 1385

<211> 643

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L11319

<400> 1385

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<210> 1386

<211> 2455

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L16764

<400> 1386

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<211> 3115

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. L16995

<400> 1387

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<210> 1388

<211> 494

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. L18948

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<210> 1389

<211> 952

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. L19698

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<213> Rattus norvegicus

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<213> *Rattus norvegicus*

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<400> 1392

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<213> Rattus norvegicus

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<223> Genbank Accession No. L25387

<400> 1393

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<212> DNA

<213> Rattus norvegicus

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<212> DNA

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<211> 577

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<213> Rattus norvegicus

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<210> 1397

<211> 2401

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. M10068

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 <213> Rattus norvegicus

<220>
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<220>
 <223> Genbank Accession No. M13506

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<211> 2639

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. M14369

<400> 1404

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<210> 1408

<211> 1161

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18527

<400> 1408

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<210> 1409

<211> 1161

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18528

<400> 1409

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<211> 1159

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18529

<400> 1410

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<211> 1161

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M18531

<400> 1411

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 <213> Rattus norvegicus

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<210> 1414
 <211> 2280
 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 1415

<211> 1821

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M31322

<400> 1415

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<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M34643

<400> 1416

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<223> Genbank Accession No. M36151

<400> 1417

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<211> 2975

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M38759

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<211> 1247

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M55534

<400> 1419

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M57263

<400> 1420

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<211> 1714

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. M63991

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<211> 2977

<212> DNA

<213> Rattus norvegicus

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<210> 1430

<211> 1329

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. M98820

<400> 1430

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<210> 1431

<211> 419

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. R46985

<220>

<221> unsure

<222> (1) .. (419)

<223> n = a or c or g or t

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gcagatcagc ctgaagaact acgaccctca ganggacaaa cgtttctcgg gcaccgtcag 180
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aattatcaag aagtngggtc aagatggttg gcttaagang tncggatggc ctcttggggn 360
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<210> 1432

<211> 2190

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. S46785

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aaaagaaact aaccaggatt ccctcagtaa 2190

<210> 1433

<211> 601
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. S56936

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 agcctatgtc aacgcctccg gagaacatgg catcgtgggt ttctcttttg gatccatggg 180
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 gaccctgaat gtcctggaaa tgactgccga tgatttgga aacgcctta aaactgtcat 540
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<210> 1434
 <211> 603
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. S56937

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 cagacgtcc tgtggcgcta caccggaact agaccatcga accttgcaa gaacactatt 300
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 gtgacctga atgtcctgga aatgactgcc gatgatttgg aaaacgcct taaaactgtc 540
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 cct 603

<210> 1435
 <211> 195
 <212> DNA
 <213> Rattus norvegicus

<220>
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 ttatgggtca caggaagaag tggttttttt agttgaattt ttttttttaa cattcctcct 180
 gaatgtaaat ttgta 195

<210> 1436
 <211> 746
 <212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. S71021

<400> 1436

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<210> 1437

<211> 1052

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. S72505

<400> 1437

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ttaacaagag aactcaagca attgctgcca tgccggggaa gccagtcctt cactatttcg 180
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<210> 1438

<211> 1129

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. S72506

<400> 1438

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<210> 1440
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 <212> DNA
 <213> Rattus norvegicus

<220>
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<210> 1441
 <211> 1790
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. S85184

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 ctctgttgaa gaatcagggc cagtgtgggt cttgctgggc ttttagcgca tcgggttgcc 180
 tagaaggaca gatgttccct aagactggca aactgatctc actgagtga cagaaccttg 240
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<210> 1444

<211> 1089

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U03390

<400> 1444

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<210> 1445

<211> 1318

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U04808

<400> 1445

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<210> 1446

<212> DNA

<213> Rat

<220>

<223> Genbank Accession No. U05014

<400> 1446

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<210> 1447

<211> 1589

<212> DNA

<213> Rattus norvegicus

 $\langle 220 \rangle$

<223> Genbank Accession No. U06230

<400> 1447

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<210> 1448

<211> 2226

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U07201

<400> 1448

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<210> 1449

<211> 2207

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U10357

<400> 1449

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<210> 1454

<211> 3628

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U20796

<400> 1454

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<210> 1455

<211> 976

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U21871

<400> 1455

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<211> 793

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U24489

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

<220>

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<213> Rattus norvegicus

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<223> Genbank Accession No. U48220

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<213> Rattus norvegicus

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<211> 339

<212> DNA
 <213> Rattus norvegicus

<220>
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 <212> DNA
 <213> Rattus norvegicus

<220>
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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U68168

<400> 1472

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 <213> Rattus norvegicus

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 <223> n = a or c or g or t

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. U73174

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 <222> (1) .. (3339)
 <223> n = a or c or g or t

<400> 1477

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U77038

<400> 1478

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<210> 1479

<211> 1038

<212> DNA

<213> Rattus norvegicus


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<210> 1481

<211> 3622

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U88036

<400> 1481

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<211> 1360

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. U94708

<400> 1482

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<210> 1483

<211> 624

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. U95001

<400> 1483

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<210> 1484

<211> 1574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. V01225

<400> 1484

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<210> 1487

<211> 927

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X05566

<400> 1487

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<211> 696

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X06423

<400> 1488

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<211> 1495

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X12459

<400> 1489

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<213> Rattus norvegicus

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<213> *Rattus norvegicus*

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<223> Genbank Accession No. X13058

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<212> DNA

<213> *Rattus norvegicus*

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<213> Rattus norvegicus

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<211> 3330

<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. X51529

<400> 1495

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<210> 1496

<211> 2376

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X51615

<400> 1496

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<210> 1497

<211> 664

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X53504

<400> 1497

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<210> 1498

<211> 2812

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X55153

<400> 1498

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<210> 1499

<211> 2234

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X55298

<400> 1499

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<210> 1500

<211> 2674

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X57523

<220>

<221> unsure

<222> (1) .. (2665)

<223> n = a or c or g or t

<400> 1500

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<211> 628

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X58389

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<211> 497

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X59375

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<211> 15231

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X59601

<400> 1505

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<220>
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<220>
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<211> 2141

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X65296

<400> 1511

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2141

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<213> Rattus norvegicus

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<223> Genbank Accession No. X73411

<400> 1512

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<213> Rattus norvegicus

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<212> DNA
<213> *Rattus norvegicus*

<220>
<223> Genbank Accession No. X78848

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<212> DNA
<213> *Rattus norvegicus*

<220>
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<212> DNA

<213> Rattus norvegicus

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<210> 1518

<211> 443

<212> DNA

Figure 1 consists of 12 histograms arranged vertically, each representing a different value of n from 10 to 120 in increments of 10. The x-axis for all histograms is the number of non-zero elements, ranging from 0 to 120. The y-axis is the frequency, ranging from 0 to 100. The histograms show a distribution that is roughly bell-shaped and centered around 60 for $n=10$. As n increases, the distribution shifts to the right, and the peak frequency decreases. For example, for $n=10$, the peak is at 60 with a frequency of approximately 100. For $n=120$, the peak is at 120 with a frequency of approximately 10.

<223> Genbank Accession No. X81448

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<213> Rattus norvegicus

<223> Genbank Accession No. X86561

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X94769

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<211> 1780

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X97772

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<210> 1522

<211> 1632

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. X98517

<400> 1522

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<210> 1523

<211> 1662

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. Y08355

<400> 1523

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<210> 1524

<211> 1711

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. Y09333

<400> 1524

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<211> 1614

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. Y12635

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<211> 1634

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. Z48225

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<220>
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<210> 1542

<211> 1954

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012545

<400> 1542

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 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. NM_012551

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_012561

<400> 1544

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<211> 1937

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012571

<400> 1545

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<400> 1546

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<213> Rattus norvegicus

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<400> 1547

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<213> *Rattus norvegicus*

<220>

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<220>
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<211> 487

<212> DNA

<213> Rattus norvegicus

<220>

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<212> DNA

<213> *Rattus norvegicus*

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_012637

<400> 1555

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<211> 2462

<212> DNA

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<223> Genbank Accession No. NM_012649

<400> 1556

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 <213> Rattus norvegicus

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<220>
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<210> 1561

<211> 2259

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012693

<400> 1561

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<210> 1562

<211> 1936

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012699

<400> 1562

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<210> 1563

<211> 3320

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012716

<400> 1563

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<210> 1564

<211> 2583

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012725

<400> 1564

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<210> 1565

<211> 5588

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012726

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<221> unsure

<222> (1) .. (5588)

<223> n = a or c or g or t

<400> 1565

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<212> DNA

<213> Rattus norvegicus

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<211> 2042

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012792

<400> 1571

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<210> 1572

<211> 924

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012793

<400> 1572

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<210> 1573

<211> 1258

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_012796

<400> 1573

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<210> 1574

<211> 1124

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012797

<400> 1574

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<210> 1575

<211> 1543

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012803

<400> 1575

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<211> 1504

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012816

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<211> 1454
 <212> DNA
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<212> DNA

<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM_012918

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<213> Rattus norvegicus

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<213> Rattus norvegicus

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<210> 1593

<211> 4153

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_012999

<400> 1593

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<211> 664

<213> Rattus norvegicus

<223> Genbank Accession No. NM 013027

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<211> 1666

<213> Rattus norvegicus

<223> Genbank Accession No. NM 013043

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<210> 1596

<211> 1689

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013052

<400> 1596

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<210> 1597

<211> 2415

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013059

<400> 1597

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<210> 1598

<211> 1519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013078

<400> 1598

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<210> 1599

<211> 2153

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_013082

<400> 1599

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013132

<400> 1606

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM_013144

<400> 1608

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013154

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_013173

<400> 1610

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM_013185

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<210> 1612

<211> 2389

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_013198

<400> 1612

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<210> 1614

<211> 1523

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013214

<400> 1614

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<210> 1615

<211> 1272

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013215

<400> 1615

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<210> 1616

<211> 1088

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_013216

<400> 1616

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<210> 1617

<211> 1866

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_016986

<400> 1617

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<210> 1618

<211> 4269

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_016987

<400> 1618

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<213> Rattus norvegicus

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<400> 1619

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_016991

<400> 1620

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<211> 1091

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_016995

<400> 1621

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<210> 1622

<211> 2462

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_016999

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<211> 2324

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017006

<400> 1623

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<212> DNA

<213> Rattus norvegicus

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<210> 1625
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 <213> Rattus norvegicus

<220>
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<210> 1626

<211> 1663

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017047

<400> 1626

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 <212> DNA
 <213> *Rattus norvegicus*

<220>
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 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. NM_017060

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<210> 1629

<211> 2793

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017073

<400> 1629

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<210> 1630

<211> 1743

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017074

<400> 1630

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<210> 1631

<211> 1715

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017075

<400> 1631

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<210> 1633

<211> 988

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017084

<400> 1633

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<210> 1634

<211> 693

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017096

<400> 1634

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ctggaagcag agtcaaagaa gccactggaa gccttactg tgtgtctcta tgcccacgct 180
gatgtgagcc gaagcttcag catcttctct tacgctacca agacgagctt taacgagatt 240

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cttctgtttt ggactagggg tcaagggttt agtattgcag taggtggggc tgaaatactg 300
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acaggaattg tagagctttg gcttgacggg aaaccagggg tgcggaaaag tctgcagaag 420
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tttgtgctat ctccagaaca gatcaatgca gtctatgttg gtaggggtatt cagccccaat 600
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<210> 1635

<211> 838

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017126

<400> 1635

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acagtctgtt gacatgagca agaattccta agctacaata aaaagaatat ttctattaaa 660
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<210> 1636

<211> 2540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017127

<400> 1636

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cacaaccgcc gccccgcggg tcagtgaagc cggtagacca ttccccgcgc cggccccag 180
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ccgcttgggg tgctgctgag ctgcggtggc agcgtgccc cgacgcccgg cgtagggcag 360
cagcgcgatg ccgcaggcga gctggagtcc aagcagcttg gtggccggtc ccaacctctc 420
gcgctgcgcg cgccaccacc gccgcccctg ccgctgcccc cgccgccatc accgccgcta 480
gcggacgaac aacccgagcc ccggacgcgg cgcaggccct acctgtgggt caaggaattc 540
ctgcccggag cctggagggg ccttcgcgag gaccagttcc acatcagtggt catcaggggt 600
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<210> 1637

<211> 1039

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017147

<400> 1637

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<210> 1638

<211> 801

<212> DNA
 <213> Rattus norvegicus
 <220>
 <223> Genbank Accession No. NM_017160

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 gtagctgctg atgctcttgg tgaagagtgg aagggttatg tggtcgggat cagcgggtggg 180
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 tctgtccgag gatgcattgt ggatgccaac ctgagtgttc tcaacttggg tattgtaaaa 360
 aaaggagaga aggatattcc aggactgaca gataccactg tgcctcgctg gttgggacct 420
 aaaagagcta gtagaatccg aaagcttttt aatctctcca aagaagatga tgtccgccag 480
 tatgtttgta gaaagccctt aaacaaagaa ggtaagaagc ccaggaccaa agcgcccaag 540
 attcagcgtc ttgttactcc ccgtgtcctg caacacaaac gccgacgtat tgctctgaag 600
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<210> 1639
 <211> 1679
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_017177

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 tggagtctcg aagaaagccg gagacagtcg cgaagaacgg aggacgcca gagactcttc 180
 ggcttcccgg aagtggaacc gagcataccc ggaaggagct aatcccacct gaagattgct 240
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 tagtcggagg aggggtgtgc ggcggccccc tgtccaagga cggtttgctg gatgctaagt 360
 gccagaacac aatccccaat cggcggcgct cttcctcgct gtcccgtgac gcgcagcgcc 420
 gagcctatca ttggtgccgg gactacctgg gcggagcctg gcgcagagcg cgccggagg 480
 agctgagcgt ttgcccgtg agcggaggcc tcagcaacct gctcttccga tgctcgctac 540
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 caacaaagat ggcccgtttc catggtatgg agatgccctt caccaaggag ccccgctggg 840
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aggggggcat ctgacagccc ctggggctgt gcacctaaat aaatgaactt cacaaatac 1679

<210> 1640

<211> 1386

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017181

<400> 1640

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<210> 1641

<211> 1072

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017187

<400> 1641

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acgccttctt cgtgcagacc tgccgggagg agcacaagaa gaagcatccc gactcgctcg 180
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<210> 1645

<211> 1176

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017220

<400> 1645

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<210> 1646

<211> 2227

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017224

<400> 1646

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<210> 1647

<211> 2519

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017259

<400> 1647

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<210> 1648

<211> 2646

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017274

<400> 1648

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<210> 1649

<211> 1174

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017278

<400> 1649

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_017279

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_017281

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<210> 1652
 <211> 970
 <212> DNA
 <213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017282

<400> 1652

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<210> 1653

<211> 932

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017283

<400> 1653

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<211> 1490

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017288

<400> 1654

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<210> 1655

<211> 1879

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017300

<400> 1655

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<210> 1656

<211> 796

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017309

<400> 1656

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<210> 1657

<211> 2068

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_017327

<400> 1657

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<210> 1658

<211> 436

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017334

<400> 1658

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<210> 1659

<211> 722

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019165

<400> 1659

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<210> 1660

<211> 1018

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019170

<400> 1660

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<210> 1661

<211> 1856

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019184

<400> 1661

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<210> 1662

<211> 1192

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019190

<400> 1662

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<210> 1663

<211> 2794

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019192

<400> 1663

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<400> 1664

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM_019204

<400> 1665

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_019206


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<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. NM_019229

<400> 1667

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<212> DNA

<213> Rattus norvegicus

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<400> 1668

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<210> 1669

<211> 1662

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019238

<400> 1669

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<210> 1670

<211> 1736

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019242

<400> 1670

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<210> 1672
 <211> 1940
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. NM_019283

<400> 1672
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 gggtccccgc cagccgccca gcgcgcagac ggggcttgat gtccagggtg tcagcgcagc 180
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<210> 1673
 <211> 1430
 <212> DNA
 <213> *Rattus norvegicus*

<220>
 <223> Genbank Accession No. NM_019289

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 gccccgaga gtaaccgat tgtgacctgc ggcacagacc gcaatgccta tgtgtggacg 240
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<220>

<223> Genbank Accession No. NM_019293

<400> 1677

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<210> 1678

<211> 1768

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019303

<220>

<221> unsure

<222> (1) .. (1759)

<223> n = a or c or g or t

<400> 1678

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ttactagtaa aaaaaaaaaa aaaaaaaa 1768

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<210> 1679

<211> 1575

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019354

<400> 1679

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<210> 1680

<211> 1377

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019356

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<210> 1681

<211> 1932

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019359

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<210> 1682

<211> 1395

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_019905

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<211> 546

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_020082

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<222> (1) .. (546)

<223> n = a or c or g or t

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<211> 4540

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021266

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<211> 1574

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_021577

<400> 1685

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<210> 1686

<211> 1733

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_021593

<400> 1686

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 <211> 2106
 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_021653

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 <212> DNA
 <213> Rattus norvegicus

<220>
 <223> Genbank Accession No. NM_021750

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<213> Rattus norvegicus

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<400> 1689

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<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022194

<400> 1693

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<213> Rattus norvegicus

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<400> 1694

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<213> *Rattus norvegicus*

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<400> 1695

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 <212> DNA

<213> Rattus norvegicus

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<400> 1697

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<210> 1698

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022287

<400> 1698

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<210> 1699

<211> 1617

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022298

<400> 1699

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<211> 651

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022284

<400> 1700

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<210> 1701

<211> 940

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_021909

<400> 1701

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<210> 1702

<211> 2410

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022392

<400> 1702

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<211> 1243

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022509

<400> 1703

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<210> 1704

<211> 2183

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022542

<400> 1704

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<213> Rattus norvegicus

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<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022667

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 <213> *Rattus norvegicus*

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<211> 3239

<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. NM_022866

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<210> 1714

<211> 861

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022867

<400> 1714

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022869

<400> 1715

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<210> 1716

<211> 1992

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_022936

<400> 1716

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<211> 715

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_022949

<400> 1717

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<210> 1718

<211> 1495

<212> DNA

<213> *Rattus norvegicus*

<220>

<223> Genbank Accession No. NM_022960

<400> 1718

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<210> 1719

<211> 1408

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_024125

<400> 1719

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_024127

<400> 1720

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<212> DNA

<213> Rattus norvegicus

<220>

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<210> 1723

<211> 1213

<212> DNA

<213> Rattus norvegicus

<220>

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 <213> *Rattus norvegicus*

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<210> 1725
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 <212> DNA
 <213> *Rattus norvegicus*

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<211> 2640

<212> DNA

<213> *Rattus norvegicus*

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<223> Genbank Accession No. NM_024163

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<211> 4213

<212> DNA

<213> *Rattus norvegicus*

<220>

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<213> Rattus norvegicus

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<213> *Rattus norvegicus*

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<213> *Rattus norvegicus*

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 <213> Rattus norvegicus

<220>
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<210> 1735

<211> 1944

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022539

<400> 1735

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<210> 1736

<211> 606

<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. AA892041

<400> 1736

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<210> 1737

<211> 541

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022515

<400> 1737

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<211> 1440

<212> DNA

<213> Rattus norvegicus

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<223> Genbank Accession No. NM_022526

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<221> unsure

<222> (1) .. (1440)

<223> n = a or c or g or t

<400> 1738

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<210> 1739

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<212> DNA

<213> Rattus norvegicus

<220>

<223> Genbank Accession No. NM_017321

<400> 1739

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